

**INDEPENDENT REVIEW COMMITTEE ON HONG KONG'S
FRANCHISED BUS SERVICE**

KMB & LWB -2 to KMB & LWB -12 (APPENDICES)

| Tab | Document | Date | Bundle | Page |
|--|--|------------|--------|--------|
| <i>BUNDLE KMB-2</i> (pages 1 to 500) | | | | |
| Appendix to the Submissions from KMB & LWB on 2018/04/24 | | | | |
| 1. | Annex 1 a-i-1 to the Submission <i>“The Franchise granted to KMB covering the period from 1 July 2017 to 1 July 2027”</i> | -- | KMB-2 | 1-33 |
| 2. | Annex 1 a-i-2 to the Submission <i>“The Franchise granted to LWB covering the period from 1 May 2013 to 1 May 2023”</i> | -- | KMB-2 | 34-59 |
| 3. | Annex 1 a-i-3 to the Submission <i>“Guidelines on Bus Captain Working Hours, Rest Times and Meal Breaks (Revised in October 2010)”</i> | -- | KMB-2 | 60 |
| 4. | Annex 1 a-i-4 to the Submission <i>“Guidelines on Bus Captain Working Hours, Rest Times and Meal Breaks (Revised in 2018) and TD's press release”</i> | 23/02/2018 | KMB-2 | 61-63 |
| 5. | Annex 1 a-i-5 to the Submission <i>“Guidelines on the Introduction of a New Electronic Payment System for the Collection of Fares in the Public Transport Sector (June 2017)”</i> | -- | KMB-2 | 64-71 |
| 6. | Annex 1 a-i-6 to the Submission <i>“Guidelines on Service Improvement and Reduction in Bus Route Development Programmes”</i> | -- | KMB-2 | 72-74 |
| 7. | Annex 1 a-i-7 to the Submission | -- | KMB-2 | 75-446 |

| | | | | |
|--|--|------------|-------|---------|
| | <i>“Schedule of Routes (Kowloon Motor Bus Company (1933) Limited) Order 2017 dated 10 January 2017 (Legal Notice 3 of 2017 published in Gazette)”</i> | | | |
| 8. | Annex 1 a-i-8 to the Submission <i>“Schedule of Routes (Long Win Bus Company Limited) Order 2017 dated 10 January 2017 (Legal Notice 4 of 2017 published in Gazette)”</i> | -- | KMB-2 | 447-490 |
| 9. | Annex 1 a-i-9 to the Submission <i>“Sample Schedule of Services for KMB Route No. 23”</i> | 16/04/2018 | KMB-2 | 491-492 |
| 10. | Annex 1 a-i-10 to the Submission <i>“General Guidelines in Planning Franchised Bus Services” (part)</i> | -- | KMB-2 | 493-500 |
| BUNDLE KMB-3 (pages 501 to 1000) | | | | |
| 10. | (continued) Annex 1 a-i-10 to the Submission <i>“General Guidelines in Planning Franchised Bus Services”</i> | -- | KMB-3 | 501-509 |
| 11. | Annex 1 a-i-11 to the Submission <i>“General Guidelines on Deployment of Bus and/or Bus Trip in the Busy Corridors”</i> | -- | KMB-3 | 510-511 |
| 12. | Annex 1 a-i-12 to the Submission <i>“Conditions for Installation of TV Broadcasting System of Franchised Buses”</i> | -- | KMB-3 | 512-514 |
| 13. | Annex 1 a-i-13 to the Submission <i>“Guidelines for Erection of Bus Shelters (September 1999)”</i> | -- | KMB-3 | 515-544 |
| 14. | Annex 1 a-i-14 to the Submission <i>“Road Traffic (Construction and Maintenance of Vehicles)</i> | -- | KMB-3 | 545-638 |

| | | | | |
|---|--|----|-------|-----------|
| | <i>Regulations (Cap 374A)”</i> | | | |
| 15. | Annex 1 a-i-15 to the Submission “ <i>Recommended Minimum Specification Requirements for Franchised Bus (February 2012)</i> ” | -- | KMB-3 | 639-641 |
| 16. | Annex 1 a-i-16 to the Submission “ <i>Administrative Bulletin No. 2.9 on Certificate of Fitness Examination for Franchised Buses (September 1997)</i> ” | -- | KMB-3 | 642-649 |
| 17. | Annex 1 a-ii-1 to the Submission “ <i>TIH 2011 Annual Report</i> ” | -- | KMB-3 | 650-857 |
| 18. | Annex 1 a-ii-2 to the Submission “ <i>TIH 2012 Annual Report</i> ” (part) | -- | KMB-3 | 858-1000 |
| BUNDLE KMB-4 (pages 1001 to 1500) | | | | |
| 18. | (continued) Annex 1 a-ii-2 to the Submission “ <i>TIH 2012 Annual Report</i> ” | -- | KMB-4 | 1001-1077 |
| 19. | Annex 1 a-ii-3 to the Submission “ <i>TIH 2013 Annual Report</i> ” | -- | KMB-4 | 1078-1289 |
| 20. | Annex 1 a-ii-4 to the Submission “ <i>TIH 2014 Annual Report</i> ” | -- | KMB-4 | 1290-1489 |
| 21. | Annex 1 a-ii-5 to the Submission “ <i>TIH 2015 Annual Report</i> ” (part) | -- | KMB-4 | 1490-1500 |
| BUNDLE KMB-5 (pages 1501 to 2000) | | | | |
| 21. | (continued) Annex 1 a-ii-5 to the Submission “ <i>TIH 2015 Annual Report</i> ” | -- | KMB-5 | 1501-1685 |
| 22. | Annex 1 a-ii-6 to the Submission “ <i>TIH 2016 Annual Report</i> ” | -- | KMB-5 | 1686-1897 |
| 23. | Annex 1 a-ii-7 to the Submission “ <i>TIH 2017 Annual Report</i> ” (part) | -- | KMB-5 | 1898-2000 |
| BUNDLE KMB-6 | | | | |

| <i>(pages 2001 to 2500)</i> | | | | |
|-----------------------------|--|----|-------|-----------|
| 23. | <i>(continued)</i> Annex 1 a-ii-7 to the Submission “ <i>TIH 2017 Annual Report</i> ” | -- | KMB-6 | 2001-2109 |
| 24. | Annex 1 a-ii-8 to the Submission “ <i>KMB Management Structure as at 24 April 2018</i> ” | -- | KMB-6 | 2110 |
| 25. | Annex 1 a-ii-9 to the Submission “ <i>KMB Audited Financial Statements for the year ended 31 December 2011</i> ” | -- | KMB-6 | 2111-2164 |
| 26. | Annex 1 a-ii-10 to the Submission “ <i>KMB Audited Financial Statements for the year ended 31 December 2012</i> ” | -- | KMB-6 | 2165-2217 |
| 27. | Annex 1 a-ii-11 to the Submission “ <i>KMB Audited Financial Statements for the year ended 31 December 2013</i> ” | -- | KMB-6 | 2218-2270 |
| 28. | Annex 1 a-ii-12 to the Submission “ <i>KMB Audited Financial Statements for the year ended 31 December 2014</i> ” | -- | KMB-6 | 2271-2324 |
| 29. | Annex 1 a-ii-13 to the Submission “ <i>KMB Audited Financial Statements for the year ended 31 December 2015</i> ” | -- | KMB-6 | 2325-2378 |
| 30. | Annex 1 a-ii-14 to the Submission “ <i>KMB Audited Financial Statements for the year ended 31 December 2016</i> ” | -- | KMB-6 | 2379-2436 |
| 31. | Annex 1 a-ii-15 to the Submission “ <i>KMB Audited Financial Statements for the year ended 31 December 2017</i> ” | -- | KMB-6 | 2437-2494 |
| 32. | Annex 1 a-ii-16 to the Submission “ <i>More About KMB 2011</i> ” <i>(part)</i> | -- | KMB-6 | 2495-2500 |

| <i>BUNDLE KMB-7</i> (pages 2501 to 3000) | | | | |
|---|--|----|-------|-----------|
| 32. | (continued) Annex I a-ii-16 to the Submission “ <i>More About KMB 2011</i> ” | -- | KMB-7 | 2501-2514 |
| 33. | Annex I a-ii-17 to the Submission “ <i>More About KMB 2012</i> ” | -- | KMB-7 | 2515-2534 |
| 34. | Annex I a-ii-18 to the Submission “ <i>More About KMB 2013</i> ” | -- | KMB-7 | 2535-2554 |
| 35. | Annex I a-ii-19 to the Submission “ <i>More About KMB 2014</i> ” | -- | KMB-7 | 2555-2574 |
| 36. | Annex I a-ii-20 to the Submission “ <i>More About KMB 2015</i> ” | -- | KMB-7 | 2575-2594 |
| 37. | Annex I a-ii-21 to the Submission “ <i>More About KMB 2016</i> ” | -- | KMB-7 | 2595-2614 |
| 38. | Annex I a-ii-22 to the Submission “ <i>LWB Management Structure as at 24 April 2018</i> ” | -- | KMB-7 | 2615 |
| 39. | Annex I a-ii-23 to the Submission “ <i>LWB Audited Financial Statements for the year ended 31 December 2011</i> ” | -- | KMB-7 | 2616-2655 |
| 40. | Annex I a-ii-24 to the Submission “ <i>LWB Audited Financial Statements for the year ended 31 December 2012</i> ” | -- | KMB-7 | 2656-2696 |
| 41. | Annex I a-ii-25 to the Submission “ <i>LWB Audited Financial Statements for the year ended 31 December 2013</i> ” | -- | KMB-7 | 2697-2739 |
| 42. | Annex I a-ii-26 to the Submission “ <i>LWB Audited Financial Statements for the year ended 31 December 2014</i> ” | -- | KMB-7 | 2740-2782 |
| 43. | Annex I a-ii-27 to the Submission “ <i>LWB Audited Financial Statements for the year ended 31 December 2015</i> ” | -- | KMB-7 | 2783-2827 |

| | | | | |
|---|--|----|----------|-----------|
| 44. | Annex 1 a-ii-28 to the Submission <i>“LWB Audited Financial Statements for the year ended 31 December 2016”</i> | -- | KMB-7 | 2828-2878 |
| 45. | Annex 1 a-ii-29 to the Submission <i>“LWB Audited Financial Statements for the year ended 31 December 2017”</i> | -- | KMB-7 | 2879-2931 |
| 46. | Annex 1 a-ii-30 to the Submission <i>“More About LWB 2011”</i> | -- | KMB-7 | 2932-2947 |
| 47. | Annex 1 a-ii-31 to the Submission <i>“More About LWB 2012”</i> | -- | KMB-7 | 2948-2963 |
| 48. | Annex 1 a-ii-32 to the Submission <i>“More About LWB 2013”</i> | -- | KMB-7 | 2964-2979 |
| 49. | Annex 1 a-ii-33 to the Submission <i>“More About LWB 2014”</i> | -- | KMB-7 | 2980-2995 |
| 50. | Annex 1 a-ii-34 to the Submission <i>“More About LWB 2015”</i> (part) | -- | KMB-7 | 2996-3000 |
| BUNDLE KMB-8 (pages 3001 to 3500) | | | | |
| 50. | (continued) Annex 1 a-ii-34 to the Submission <i>“More About LWB 2015”</i> | -- | KMB-8(A) | 3001-3011 |
| 51. | Annex 1 a-ii-35 to the Submission <i>“More About LWB 2016”</i> | -- | KMB-8(A) | 3012-3027 |
| 52. | Annex 1 a-iii-1 to the Submission <i>“Code of Conduct for Directors and Employees”</i> | -- | KMB-8(A) | 3028-3064 |
| 53. | Annex 1 a-iii-2 to the Submission <i>“董事及僱員紀律守則”</i> | -- | KMB-8(A) | 3065-3085 |
| 54. | Annex 1 a-iii-3 to the Submission <i>“Outdoor Operations Staff Handbook”</i> | -- | KMB-8(A) | 3086-3135 |
| 55. | Annex 1 a-iii-4 to the Submission <i>“車務外勤員工服務手冊”</i> | -- | KMB-8(A) | 3136-3189 |
| 56. | Annex 1 a-iii-5 to the Submission <i>“Office Staff Handbook”</i> | -- | KMB-8(A) | 3190-3254 |

| | | | | |
|-----|---|----|----------|--|
| 57. | Annex I a-iii-6 to the Submission “維修員工安全規例” | -- | KMB-8(A) | 3255-3310 3310-1 – 3310-56 (Translation) |
| 58. | Annex I a-iii-7 to the Submission “車長安全駕駛手冊” | -- | KMB-8(B) | 3311-3352 3352-1 – 3352-42 (Translation) |
| 59. | Annex I a-iii-8 to the Submission “駕駛急彎之注意事項(1 video)” | -- | KMB-8(B) | 3353 |
| 60. | Annex I a-iii-9 to the Submission “車長壓力管理” | -- | KMB-8(B) | 3354-3358 3358-1 – 3358-5 (Translation) |
| 61. | Annex I a-iii-10 to the Submission “注意路段駕駛貼士查詢” | -- | KMB-8(B) | 3359-3376 3376-1 – 3376-42 (Translation) |
| 62. | Annex I a-iii-11 to the Submission “服務提昇及情緒管理(a series of videos)” | -- | KMB-8(B) | 3377 |
| 63. | Annex I a-iii-12 to the Submission “Codes of Practice (ISO 9001, ISO 14001 and OHSAS 18001)” (part) | -- | KMB-8(B) | 3378-3500 3407-1 – 3407-7; 3414-1 – 3414-8; 3426-1 – 3426-14; 3434-1 – 3434-10; 3447-1 – 3447-3; 3454-1 – |

| | | | | |
|---|--|----|----------|--|
| | | | | 3454-7; 3462-1 – 3462-8; 3474-1 – 3474-7 (Translation) |
| BUNDLE KMB-9 (pages 3501 to 4000) | | | | |
| 63. | (continued) Annex 1 a-iii-12 to the Submission “Codes of Practice (ISO 9001, ISO 14001 and OHSAS 18001)” | -- | KMB-9(A) | 3501-3753 3502-1 - 3502-7; 3629-1 – 3629-7; 3636-1 – 3636-7; 3649-1 – 3649-3; (Translation) |
| 64. | Annex 1 a-iv-1 to the Submission “KMB's Sustainability Report 2016” | -- | KMB-9(A) | 3754-3805 |
| 65. | Annex 1 a-iv-2 to the Submission “LWB's Corporate Social Responsibility Report 2016” | -- | KMB-9(A) | 3806-3818 |
| 66. | Annex 1 c-1 to the Submission “Extracts of the report for KMB's PSS conducted in October 2017” | -- | KMB-9(A) | 3819-3836 |
| 67. | Annex 1 c-2 to the Submission “Extracts of the report for LWB's PSS conducted in November 2016” | -- | KMB-9(A) | 3837-3839 |
| 68. | Annex 4 b-1 to the Submission “Press release regarding the discussion at a meeting of the Legislative Council in June 2016” | -- | KMB-9(A) | 3840-3844 |
| 69. | Annex 4 b-2 to the Submission “Record regarding the discussion at a meeting of the Legislative | -- | KMB-9(A) | 3845-3847 3847-1 – |

| | | | | |
|-----|--|------------|----------|---|
| | <i>Council on 20 April 2018”</i> | | | 3847-4; (Translation) |
| 70. | Annex 9 c-1 to the Submission <i>“Notices from KMB's Human Resources Department from 2012 to 2016”</i> | -- | KMB-9(A) | 3848-3852 3852-1 – 3852-9; (Translation) |
| 71. | Annex 9 c-2 to the Submission <i>“Internal memos from KMB's Human Resources Department from 2012 to 2015”</i> | -- | KMB-9(A) | 3853-3857 |
| 72. | Annex 9 c-3 to the Submission <i>“Notices from KMB's Human Resources Department from 2016 to 2018”</i> | -- | KMB-9(A) | 3858-3865 3865-1 – 3865-8; (Translation) |
| 73. | Annex 10 a-1 to the Submission <i>“Particulars of two-phased training programme for BC candidates”</i> | -- | KMB-9(A) | 3866 |
| 74. | Annex 10 c-1 to the Submission <i>“Internal memo of KMB and LWB”</i> | 12/04/2018 | KMB-9(A) | 3867-3868 3868-1 – 3868-2 (Translation) |
| 75. | Annex 10 d-1 to the Submission <i>“Image of the banner put up on KMB Staff website”</i> | -- | KMB-9(A) | 3869 3869-1 (Translation) |
| 76. | Annex 10 e-1 to the Submission <i>“Particulars of route-specific training for employed BCs”</i> | -- | KMB-9(A) | 3870 |
| 77. | Annex 11 a-1 to the Submission <i>“Sample of Driving Offence Record Check”</i> | -- | KMB-9(A) | 3871-3872 |
| 78. | Annex 11 a-2 to the Submission <i>“Sample of TD Scheduled Driving Offence Check”</i> | -- | KMB-9(A) | 3873-3874 |

Appendix to the Submissions from KMB & LWB on 18 May 2018

| | | | | |
|--|---|----|-----------|---|
| 79. | Annex FQ2a-i <i>“Results of PLG sessions of KMB in 2016-2017”</i> | -- | KMB-9(B) | 3875 – 3952 3952-1 to 3952-149 (Translation) |
| 80. | Annex FQ2a-ii <i>“Results of PLG sessions of LWB in 2016-2017”</i> | -- | KMB-9(B) | 3953 – 3992 |
| 81. | Annex FQ4d-i <i>“Sample data retrieved from black boxes showing speeding cases (report BOP 207)”</i> | -- | KMB-9(B) | 3993 – 3996 3974-1 to 3974-5; 3978-1 to 3978-2; 3982-1 to 3982-2; 3986-1 to 3986-2; 3991-1 to 3991-4; 3995-1 to 3995-3 (Translation) |
| 82. | Annex FQ6-i <i>“Extracts of TD' s letter to KMB dated 1 0 March 2017”</i> | -- | KMB-9(B) | 3997 – 3998 |
| 83. | Annex FQ8-i <i>“Extracts of TD's letter to LWB dated 2 April2012”</i> | -- | KMB-9(B) | 3999 – 4000 |
| BUNDLE KMB-10 (pages 4001 to 4500) | | | | |
| 84. | Annex FQ12a-i-D1 <i>“The work of the shift allocation team”</i> | -- | KMB-10(A) | 4001 – 4062 4062-1 to 4062-108 |

| | | | | |
|-----|---|----|-----------|--|
| | | | | (Translation) |
| 85. | Annex FQ12a-i-D3 <i>“The work of a bus captain”</i> | -- | KMB-10(A) | 4063 – 4114 4114-1 to 4114-103 (Translation) |
| 86. | Annex FQ12a-i-D4 <i>“Control of Operations”</i> | -- | KMB-10(A) | 4115 – 4134 4117-1; 4122-1; 4124-1; 4127-1; 4128-1; 4129-1; 4134-1; (Translation) |
| 87. | Annex FQ12a-i-D5 <i>“Scheduling of Bus Service”</i> | -- | KMB-10(A) | 4135 – 4148 4140-1; 4147-1; (Translation) |
| 88. | Annex FQ12a-i-D6 <i>“The work of the shift formulation team”</i> | -- | KMB-10(A) | 4149 – 4160 4160-1 to 4160-19 (Translation) |
| 89. | Annex FQ12a-i-D8 <i>“The handling of bus traffic accident”</i> | -- | KMB-10(A) | 4161 – 4190 4190-1 to 4190-54 (Translation) |
| 90. | Annex FQ12a-i-D9 <i>“Maintenance of Schedule of</i> | -- | KMB-10(A) | 4191 – 4200 |

| | | | | |
|-----|--|----|-----------|---|
| | <i>Service”</i> | | | |
| 91. | Annex FQ12a-i-D10 <i>“The contingency plan of emergency event”</i> | -- | KMB-10(B) | 4201 – 4234 4234-1 to 4234-54 (Translation) |
| 92. | Annex FQ12a-i-D15 <i>“The work of the traffic affairs supervisor”</i> | -- | KMB-10(B) | 4235 – 4270 4270-1 to 4270-65 (Translation) |
| 93. | Annex FQ12a-i-D16 <i>“The work of terminus supervisor”</i> | -- | KMB-10(B) | 4271 – 4292 4292-1 to 4292-22 (Translation) |
| 94. | Annex FQ12a-i-R1 <i>“The training request form of bus captain”</i> | -- | KMB-10(B) | 4293 – 4294 |
| 95. | Annex FQ12a-i-R2 <i>“The notice of training of bus captain”</i> | -- | KMB-10(B) | 4295 – 4296 4295-1 (Translation) |
| 96. | Annex FQ12a-i-R12 <i>“Report on the effect of Redeployment (sample form)”</i> | -- | KMB-10(B) | 4297 – 4298 |
| 97. | Annex FQ12a-i-R15 <i>“List of report and notification of various events”</i> | -- | KMB-10(B) | 4299 – 4300 4300-1 to 4300-2 (Translation) |
| 98. | Annex FQ12a-ii-D1 <i>“Accident Prevention Report”</i> | -- | KMB-10(B) | 4301 – 4310 |

| | | | | |
|------|--|----|-----------|--|
| 99. | Annex FQ12a-ii-D2 <i>“Traffic Accident Internal Record Maintenance”</i> | -- | KMB-10(B) | 4311 – 4326 4321-1; 4323-1; 4324-1 (Translation) |
| 100. | Annex FQ12a-ii-D3 <i>“General Non Traffic Accident”</i> | -- | KMB-10(B) | 4327 – 4342 4329-1; 4331-1; 4334-1; 4337-1; 4338-1; 4339-1; 4341-1; 4342-1 (Translation) |
| 101. | Annex FQ12a-ii-D4 <i>“Traffic Accident Site Investigation”</i> | -- | KMB-10(B) | 4343 – 4358 |
| 102. | Annex FQ12a-ii-D5 <i>“Safe Driving Bonus Scheme and Civil Liability Assessment”</i> | -- | KMB-10(B) | 4359 – 4366 |
| 103. | Annex FQ12a-ii-D6 <i>“Accident Information to Transport Department”</i> | -- | KMB-10(B) | 4367 – 4376 |
| 104. | Annex FQ12a-ii-D7 <i>“Accident Prone Bus Captain”</i> | -- | KMB-10(B) | 4377 – 4386 |
| 105. | Annex FQ12a-ii-R1 <i>“Accident Prevention Report, KMB's letter to TD dated 26 July 2016 and other relevant documents”</i> | -- | KMB-10(B) | 4387 – 4396 |
| 106. | Annex FQ12a-ii-R2 <i>“Traffic Accident Report (sample</i> | -- | KMB-10(B) | 4397 – 4398 |

| | | | | |
|------|--|----|-----------|--|
| | <i>form)</i> ” | | | |
| 107. | Annex FQ12a-ii-R3 <i>“Incident Report (sample form)”</i> | -- | KMB-10(B) | 4399 – 4400 4400-1 to 4400-4 (Translation) |
| 108. | Annex FQ12a-iii-D1 <i>“Design of Technical Training Course”</i> | -- | KMB-10(B) | 4401 – 4414 |
| 109. | Annex FQ12a-iii-R2 <i>“Annual Training Plan 2018”</i> | -- | KMB-10(B) | 4415 – 4420 4420-1 to 4420-9 (Translation) |
| 110. | Annex FQ12a-iii-R3 <i>“Course Design Plan”</i> | -- | KMB-10(B) | 4421 – 4422 4421-1 (Translation) |
| 111. | Annex FQ12a-iii-R4 <i>“TTS Training Course Design Control Form”</i> | -- | KMB-10(B) | 4423 – 4424 4424-1 to 4424-2 (Translation) |
| 112. | Annex FQ12a-iii-R5 <i>“TTS Evaluation of Training Course”</i> | -- | KMB-10(B) | 4425 – 4430 4426-1 to 4426-2 (Translation) |
| 113. | Annex FQ12a-iii-R6 <i>“TTS Training Course Feedback Corrective Action I Validation”</i> | -- | KMB-10(B) | 4431 – 4432 4432-1 to 4432-2 |

| | | | | |
|--|---|--------------------------|-----------|---|
| | | | | (Translation) |
| 114. | Annex FQ12a-iii-R7 <i>“In-House Training Record”</i> | -- | KMB-10(B) | 4433 – 4434 4433-1 (Translation) |
| 115. | Annex FQ16b-i <i>“Sample training and assignment records for Route 102”</i> | -- | KMB-10(B) | 4435 – 4436 4435-1 (Translation) |
| 116. | Annex FQ16b-ii <i>“Sample training and assignment records for Route 112”</i> | -- | KMB-10(B) | 4437 – 4438 4437-1 (Translation) |
| 117. | Annex FQ19a-i <i>“Sample BC candidate interview evaluation form”</i> | -- | KMB-10(B) | 4439 - 4440 |
| BUNDLE KMB-11 (pages 4441 - 4826) | | | | |
| Annexes to the Letter from KMB & LWB to IRC providing further information after oral evidence hearing on 10 and 11 August 2018 | | | | |
| 118. | Annex 1.1 <i>“Email from Gary Wong (SSQ) to General Managers of all depots”</i> | 22/08/2014 (5:34 pm) | KMB-11 | 4441 – 4442 4443 – 4444 (Translation) |
| 119. | Annex 1.2 <i>“Email from Jenny Yu (SSQ) to Operations Officers of all depots”</i> | 27/08/2014 (11:11 am) | KMB-11 | 4445 |
| 120. | Annex 1.3 <i>“Email from Gary Wong (SSQ) to Operations Officers of all depots”</i> | 27/08/2014 (11:42 am) | KMB-11 | 4446 |
| 121. | Annex 1.4 <i>“Email from Kwok Ho Yeung (KB) to Gary Wong (SSQ)”</i> | 19/09/2014 (12:52 pm) | KMB-11 | 4447 |

| | | | | |
|------|---|--------------------------|--------|---|
| 122. | Annex 1.5 <i>“Email from Kwok Ho Yeung (KB) to Gary Wong (SSQ)”</i> | 19/09/2014 (2:53 pm) | KMB-11 | 4448 |
| 123. | Annex 1.6 <i>“Email from Gary Wong (SSQ) to Kwok Ho Yeung (KB)”</i> | 19/09/2014 (3:23 pm) | KMB-11 | 4449 |
| 124. | Annex 1.7 <i>“Email from Jenny Yu (SSQ) to Operations Officers of all depots”</i> | 25/09/2014 (12:37 pm) | KMB-11 | 4450 |
| 125. | Annex 1.8 <i>“Email from Gary Wong (SSQ) to Operations Officers of all depots and LWB”</i> | 08/10/2014 (9:47 pm) | KMB-11 | 4451 |
| 126. | Annex 1.9 <i>“Email from Gary Wong (SSQ) to Operations Officers of all depots and LWB”</i> | 24/10/2014 (9:50 pm) | KMB-11 | 4452 – 4453 |
| 127. | Annex 1.10 <i>“Email from Gary Wong (SSQ) to Operations Officers of all depots”</i> | 08/01/2015 (12:12 pm) | KMB-11 | 4454 – 4460 4461 – 4468 (Translation) |
| 128. | Annex 1.11 <i>“Email from Aman Fong (SSQ) to General Managers of all depots and LWB”</i> | 11/02/2015 (6:18 pm) | KMB-11 | 4469 |
| 129. | Annex 1.12 <i>“Email from Gary Wong (SSQ) to Owen Eckford (OD)”</i> | 12/02/2015 (11:04 am) | KMB-11 | 4470 |
| 130. | Annex 1.13 <i>“Email from Owen Eckford (OD) to Gary Wong (SSQ)”</i> | 12/02/2015 (4:28 pm) | KMB-11 | 4471 |
| 131. | Annex 1.14 <i>“Email from Gary Wong (SSQ) to Owen Eckford (OD)”</i> | 12/02/2015 (6:12 pm) | KMB-11 | 4472 |
| 132. | Annex 1.15 <i>“Email from Owen Eckford (OD) to</i> | 12/02/2015 (6:25 pm) | KMB-11 | 4473 |

| | | | | |
|------|---|--|--------|----------------|
| | <i>Gary Wong (SSQ)</i> | | | |
| 133. | Annex 1.16 <i>“Email from Gary Wong (SSQ) to Safety & Service Quality Department”</i> | 12/02/2015 (6: 48pm) | KMB-11 | 4474 |
| 134. | Annex 1.17 <i>“Updated list of names and positions of key persons shown in the documents / emails above”</i> | -- | KMB-11 | 4475 |
| 135. | Annex 2.1 <i>“Extract of ISO Quality Procedure – Quality Instruction: Friends of KMB Volunteer Club”</i> | 01/01/2018 | KMB-11 | 4476 – 4477 |
| 136. | Annex 2.2 <i>“Extract of ISO Quality Procedure – Quality Instruction: Print Advertising Implementation”</i> | 01/07/2017 | KMB-11 | 4478 – 4479 |
| 137. | Annex 2.3 <i>“Extract of Backup Tape Retention Policy”</i> | 04/02/2016 | KMB-11 | 4480 – 4482 |
| 138. | Annex 2.4 <i>“Practice on Email Retention”</i> | -- | KMB-11 | 4483 |
| 139. | Annex 3.1 <i>“Email from Terry Lo (TR) to ROM Taskforce with ROM Implementation Plan”</i> | 13/07/2013 (1:44 pm) | KMB-11 | 4484 – 4491 |
| 140. | Annex 3.2 <i>“ROM System Specification”</i> | -- | KMB-11 | 4492 – 4530 |
| 141. | Annex 3.3 <i>“Tender Document of ROM”</i> | -- | KMB-11 | 4531 – 4559 |
| 142. | Annex 3.4 <i>“Email Correspondence between Catherine Yip (IT) and Evan Auyang (DMD)”</i> | 29/10/2013 (11:20 am) (11:23 am) | KMB-11 | 4560 – 4562 |
| 143. | Annex 3.5 <i>“Email from Virginia Lam (PUR) to the concerned parties for ROM”</i> | 13/12/2013 (4:46 pm) | KMB-11 | 4563 |

| | | | | |
|------|---|--------------------------------|--------|--|
| | <i>tendering”</i> | | | |
| 144. | Annex 3.6 <i>“Email from Kelvin Yeung (PUR) to the concerned parties for ROM tendering”</i> | 02/01/2014 (11:09 am) | KMB-11 | 4564 |
| 145. | Annex 3.7 <i>“ROM Tender Analysis”</i> | -- | KMB-11 | 4565 |
| 146. | Annex 3.8 <i>“Email correspondence amongst the concerned parties for ROM tendering with Powerpoint presentation – ROM Project Status Update”</i> | 12/03/2014 to 13/03/2014 | KMB-11 | 4566 – 4588 |
| 147. | Annex 3.9 <i>“4 Emails from Virginia Lam (PUR) to the Tenderers”</i> | 02/04/2014 | KMB-11 | 4589 – 4592 |
| 148. | Annex 3.10 <i>“Memo of Chung Lim Chan (IT)”</i> | 23/06/2014 | KMB-11 | 4593 |
| 149. | Annex 3.11 <i>“Memo of Chung Lim Chan (IT) with System Requirements Specification”</i> | 18/08/2014 | KMB-11 | 4594 – 4608 |
| 150. | Annex 3.12 <i>“Memo of Chung Lim Chan (IT) with System Proposal”</i> | 18/11/2014 | KMB-11 | 4609 – 4719 4682-1 to 4682-25; 4706-1 to 4706-23 (Translation) |
| 151. | Annex 3.13 <i>“Memo of Chung Lim Chan (IT) concerning ROM Status Report”</i> | 19/12/2014 to 17/09/2015 | KMB-11 | 4720 – 4735 |
| 152. | Annex 3.14 <i>“Memo of Chung Lim Chan (IT)”</i> | 26/10/2015 | KMB-11 | 4736 – 4737 |

| | | | | |
|------|---|--|--------|-----------------------------------|
| 153. | Annex 3.15 <i>“Memo of Chung Lim Chan (IT)“</i> | 17/12/2015 | KMB-11 | 4738 – 4739 |
| 154. | Annex 3.16 <i>“Email correspondence between Chung Lim Chan (IT) and Louisa Lam (ODD)“</i> | 03/02/2016 25/02/2016 | KMB-11 | 4740 – 4742 |
| 155. | Annex 3.17 <i>“Application forms for FMI to add new users to access the project”</i> | 23/10/2017 15/09/2017 25/08/2017 | KMB-11 | 4743 – 4745 |
| 156. | Annex 3.18 <i>“Update list of names and positions of key persons shown in the documents / emails above”</i> | -- | KMB-11 | 4746 |
| 157. | Annex 4.1 <i>“Internal Notice”</i> | 05/03/2015 | KMB-11 | 4747 4748 (Translation) |
| 158. | Annex 5.1 <i>“Design reference from existing application in United Kingdom”</i> | -- | KMB-11 | 4749 – 4754 |
| 159. | Annex 5.2 <i>“Letter from Alexander Dennis (Asia Pacific) Limited (“Alexander Dennis”) with no objection to sourcing and retrofitting buses with the protective screens”</i> | 22/11/2017 | KMB-11 | 4755 |
| 160. | Annex 5.3 <i>“Letter from Volvo Bus Hong Kong Limited (“Volvo”) with no objection to sourcing and retrofitting buses with the protective screens”</i> | 12/06/2018 | KMB-11 | 4756 |
| 161. | Annex 5.4 <i>“Letter from KMB to TD seeking approval to retrofit the protective shields”</i> | 27/10/2017 | KMB-11 | 4757 – 4759 |
| 162. | Annex 5.5 <i>“Letter from TD to KMB approving</i> | 12/06/2018 | KMB-11 | 4760 |

| | | | | |
|------|---|------------|--------|---|
| | <i>the protective shields”</i> | | | |
| 163. | Annex 5.6 <i>“Letter from KMB to TD seeking approval to retrofit the protective shields”</i> | 21/06/2018 | KMB-11 | 4761 |
| 164. | Annex 5.7 <i>“Letter from TD to KMB approving the protective shields”</i> | 25/06/2018 | KMB-11 | 4762 |
| 165. | Annex 5.8 <i>“Cover of Brochure for Palclear”</i> | -- | KMB-11 | 4763 |
| 166. | Annex 5.9 <i>“Information about Palram Industries Ltd.”</i> | -- | KMB-11 | 4764 |
| 167. | Annex 6.1 <i>“Photograph of the sticker with the warning message near the driver’s seat of KMB/LWB’s buses”</i> | -- | KMB-11 | 4765 |
| 168. | Annex 6.2 <i>“Design of the sticker with the warning message”</i> | -- | KMB-11 | 4766 |
| 169. | Annex 6.3 <i>“Video (with audio) showing the on board announcement that the bus captain is being impeded” (with translation of the announcement broadcasted)</i> | -- | KMB-11 | 4767 |
| 170. | Annex 6.4 <i>“Internal Notice regarding the on board announcement“</i> | 25/05/2017 | KMB-11 | 4768 4769 – 4770 (Translation) |
| 171. | Annex 7.1 <i>“Sample copy of the “DISC” Test Evaluation Form”</i> | -- | KMB-11 | 4771 4772 – 4773 (Translation) |
| 172. | Annex 8.1 <i>“Outside employment of the 311</i> | -- | KMB-11 | 4774 |

| | | | | |
|------|---|------------|--------|---|
| | <i>bus captains”</i> | | | |
| 173. | Annex 8.2 <i>“Print screen”</i> | -- | KMB-11 | 4775 4776 (Translation) |
| 174. | Annex 9.1 <i>“Declaration made by part-time bus captain who reported his/her alternative employment and worked in KMB/LWB for more than 18 hours per week”</i> | 03/03/2018 | KMB-11 | 4777 – 4778 4779 – 4781 (Translation) |
| 175. | Annex 9.2 <i>“Declaration and brief report made by part-time bus captain who reported his/her alternative employment and worked in KMB/LWB for more than 10 but less than 18 hours per week”</i> | -- | KMB-11 | 4782 – 4784 4785 – 4788 (Translation) |
| 176. | Annex 10.1 <i>“Employment Contract of Monthly-Rated Bus Captain”</i> | 21/08/2018 | KMB-11 | 4789 – 4792 4793 – 4800 (Translation) |
| 177. | Annex 10.2 <i>“Employment Contract of Monthly-Rated Bus Captain (for Bus Captains Re-employed after Retirement)”</i> | 06/08/2018 | KMB-11 | 4801 – 4803 4804 – 4809 (Translation) |
| 178. | Annex 10.3 <i>“Employment Contract of Hourly-Rated Bus Captain”</i> | 21/08/2018 | KMB-11 | 4810 – 4812 4813 – 4818 (Translation) |
| 179. | Annex 10.4 <i>“Employment Contract of</i> | 06/08/2018 | KMB-11 | 4819 – 4821 |

| | | | | |
|---|---|--------------------------------|-----------|---|
| | <i>Hourly-Rated Bus Captain (for Bus Captains Re-employed after Retirement)”</i> | | | 4822 – 4826 (Translation) |
| BUNDLE KMB-12 (pages 4827 - 5598) | | | | |
| 180. | Annex 11.1 <i>“BOP 207 records (Shatin Depot)”</i> | 29/01/2018 to 13/02/2018 | KMB-12(A) | 4827 4828 – 4833 (Translation) |
| 181. | Annex 11.2.1 <i>“Summary of data relating to speeding, sudden acceleration and harsh braking”</i> | 19/12/2017 to 12/02/2018 | KMB-12(A) | 4834 |
| 182. | Annex 11.2.2 <i>“Bus Captain Performance: Speeding”</i> | 06/02/2018 to 12/02/2018 | KMB-12(A) | 4835 4836 – 4837 (Translation) |
| 183. | Annex 11.2.3 <i>“Bus Captain Performance: Sudden Acceleration”</i> | 06/02/2018 to 12/02/2018 | KMB-12(A) | 4838 – 4841 4842 – 4847 (Translation) |
| 184. | Annex 11.2.4 <i>“Bus Captain Performance: Harsh Brake”</i> | 06/02/2018 to 12/02/2018 | KMB-12(A) | 4848 – 4850 4851 – 4855 (Translation) |
| 185. | Annex 12.1 <i>“Summary of notes from meeting between TD and all bus operators and bus manufacturers”</i> | -- | KMB-12(A) | 4856 |
| 186. | Annex 12.2 <i>“Summary of correspondences</i> | -- | KMB-12(A) | 4857 |

| | | | | |
|------|--|----|-----------|---|
| | <i>between KMB and TD”</i> | | | |
| 187. | Annex 12.3 <i>“Meeting Schedule with TD”</i> | -- | KMB-12(A) | 4858 |
| 188. | Annex 12.4 <i>“Notes of 1st Meeting held on 13 March 2018 of the Working Group on Enhancement of Safety of Franchised Buses”</i> | -- | KMB-12(A) | 4859 – 4869 4869-1 – 4869-11 (unredacted) |
| 189. | Annex 12.5 <i>“Notes of 1st Meeting held on 19 April 2018 of the Technical Meeting on Training Arrangements for Bus Captains”</i> | -- | KMB-12(A) | 4870 – 4878 4878-1 – 4878-9 (unredacted) |
| 190. | Annex 12.6 <i>“Notes of 2nd Meeting held on 23 April 2018 of the Working Group on Enhancement of Safety of Franchised Buses”</i> | -- | KMB-12(A) | 4879 – 4887 4887-1 – 4887-9 (unredacted) |
| 191. | Annex 12.7 <i>“Notes of 3rd Meeting held on 21 June 2018 of the Working Group on Enhancement of Safety of Franchised Buses”</i> | -- | KMB-12(A) | 4888 – 4908 4908-1 – 4908-21 (unredacted) |
| 192. | Annex 12.8 <i>“Draft Notes of 2nd Meeting held on 4 June 2018 of the Technical Meeting on Training Arrangements for Bus Captains”</i> | -- | KMB-12(A) | 4909 – 4920 4920-1 – 4920-12 (unredacted) |
| 193. | Annex 12.9 <i>“Note of Meeting of the 1st Sub-Working Group on On-Vehicle Safety Devices for Franchised Buses on 27 March 2018”</i> | -- | KMB-12(A) | 4921 – 4925 4925-1 – 4925-5 (unredacted) |
| 194. | Annex 12.10 <i>“Draft Notes of the 2nd Meeting of the Sub-Working Group on On-Vehicle Safety Devices for Franchised Buses on 12 June</i> | -- | KMB-12(A) | 4926 – 4932 4932-1 – 4932-7 (unredacted) |

| | | | | |
|------|--|------------|-----------|---|
| | 2018” | | | |
| 195. | Annex 12.11 <i>“Draft Notes of the 3rd Meeting of the Sub-Working Group on On-Vehicle Safety Devices for Franchised Buses on 27 June 2018”</i> | -- | KMB-12(A) | 4933 – 4938 4938-1 – 4938-6 (unredacted) |
| 196. | Annex 12.12 <i>“Letter from KMB to TD”</i> | 15/03/2018 | KMB-12(A) | 4939 – 4940 |
| 197. | Annex 12.13 <i>“Letter from TD to KMB”</i> | 26/03/2018 | KMB-12(A) | 4941 – 4944 |
| 198. | Annex 12.14 <i>“Letter from KMB to TD”</i> | 11/07/2018 | KMB-12(A) | 4945 – 4946 |
| 199. | Annex 13.1 <i>“Summary of Practice Note and Guidelines”</i> | -- | KMB-12(A) | 4947 |
| 200. | Annex 13.2 <i>“Summary of Correspondences between KMB and TD”</i> | -- | KMB-12(A) | 4948 |
| 201. | Annex 13.3 <i>“2nd and 4th Draft Guidelines on Training for Franchised Bus Captains, annexed to the Draft Notes of 2nd Meeting held on 4 June 2018 of Technical Meeting on Training Arrangements for Bus Captains”</i> | -- | KMB-12(A) | 4949 – 4960 4960-1 – 4960-12 (unredacted) |
| 202. | Annex 13.4 <i>“The Practice Note on Training Framework for Franchised Bus Captains annexed to the Notes of 3rd Meeting held on 21 June 2018 of the Working Group on Enhancement of Safety of Franchised Buses”</i> | -- | KMB-12(A) | 4961 – 4981 4981-1 – 4981-21 (unredacted) |

| | | | | |
|------|--|------------|-----------|---|
| 203. | Annex 13.5 <i>“Practice Note on Training Framework for Franchised Bus Captains annexed to letter from TD”</i> | 06/08/2018 | KMB-12(A) | 4982 – 4987 |
| 204. | Annex 13.6 <i>“Letter from KMB to TD”</i> | 18/07/2018 | KMB-12(A) | 4988 – 4989 |
| 205. | Annex 13.7 <i>“Letter from TD to KMB”</i> | 06/08/2018 | KMB-12(A) | 4990 – 4996 |
| 206. | Annex 14.1 <i>“Job Application Form (Bus Captain)”</i> | -- | KMB-12(A) | 4997 – 4999 |
| 207. | Annex 14.2 <i>“Appendix to Job Application Form”</i> | -- | KMB-12(A) | 5000 |
| 208. | Annex 14.3 <i>“Authorisation Letter to Licensing Section of TD”</i> | -- | KMB-12(A) | 5001 5002 (Translation) |
| 209. | Annex 14.4 <i>“KMB Medical Centre Medical Assessment Form”</i> | 25/11/2017 | KMB-12(A) | 5003 |
| 210. | Annex 14.5 <i>“Certificate of Previous Conviction Issue under s75(5) of Road Traffic Ordinance (Cap 374)”</i> | 20/11/2017 | KMB-12(A) | 5004 – 5005 5006 (Translation) |
| 211. | Annex 14.6 <i>“Letter from TD enclosing an appendix with information”</i> | 28/02/2018 | KMB-12(A) | 5007 – 5008 |
| 212. | Annex 14.7 <i>“KMB Medical Examination – Health Status Declaration”</i> | -- | KMB-12(A) | 5009 |
| 213. | Annex 15.1 <i>“Statistics of the venue of taking midday rest by KMB and LWB special shift bus captains”</i> | -- | KMB-12(A) | 5010 |
| 214. | Annex 16.1 | -- | KMB-12(A) | 5011 – |

| | | | | |
|------|--|------------|-----------|---|
| | <i>“Chapter 8 (Bus Safety) of KMB’s Forward Planning Programme 2019-2023”</i> | | | 5064 |
| 215. | Annex 16.2 <i>“Chapter 8 (Bus Safety) of LWB’s Forward Planning Programme 2019-2023”</i> | -- | KMB-12(A) | 5065 – 5114 |
| 216. | Annex 17.1 <i>“Table showing the number of passengers injured and fatalities in 2018”</i> | -- | KMB-12(A) | 5115 – 5116 5116-1 to 5116-3 |
| 217. | Annex 17.2 <i>“Information regarding the single “bus overturn/topple” case in 2016”</i> | -- | KMB-12(A) | 5117 |
| 218. | Annex 17.3 <i>“Information regarding the 27 “hit a street object or a vehicle or an animal””</i> | -- | KMB-12(A) | 5118 |
| 219. | Annex 18.1 <i>“Letter from KMB to Police (regarding illegal parking happened on 8 December 2017 at 18:22)”</i> | 14/12/2017 | KMB-12(A) | 5119 – 5121 5122 (Translation) |
| 220. | Annex 18.2 <i>“Letter from KMB to Police (regarding illegal parking happened on 8 December 2017 at 18:32)”</i> | 14/12/2017 | KMB-12(A) | 5123 – 5125 5126 (Translation) |
| 221. | Annex 18.3 <i>“Letter from Police to KMB (in duplicate)”</i> | 10/01/2018 | KMB-12(A) | 5127 – 5128 |
| 222. | Annex 18.4 <i>“Letter from KMB to Police (regarding illegal parking happened on 10 December 2017 at 20:50)”</i> | 27/02/2018 | KMB-12(A) | 5129 – 5131 5132 (Translation) |
| 223. | Annex 18.5 | 27/02/2018 | KMB-12(A) | 5133 – |

| | | | | |
|------|---|--|-----------|---|
| | <i>“Letter from KMB to Police (regarding illegal parking happened on 10 December 2017 at 20:52)”</i> | | | 5135 5136 (Translation) |
| 224. | Annex 18.6 <i>“Letter from KMB to Police (regarding illegal parking happened on 6 June 2018 at 22:30)”</i> | 28/06/2018 | KMB-12(A) | 6137 – 5138 5139 (Translation) |
| 225. | Annex 18.7 <i>“Email correspondence between Patrick Pang (DOD) and Police Superintendent Chung Hung Yip Courtney”</i> | 15/11/2017 14/08/2018 | KMB-12(A) | 5140 – 5141 |
| 226. | Annex 18.8 <i>“Email from Kenneth Kung (Operations Officer) to Patrick Pang (DOD) and some previous email correspondence with 4 pages of photos”</i> | 14/11/2017 (12:50 pm) (11:34 am) (11:28 am) | KMB-12(A) | 5142 – 5147 5148 – 5153 (Translation) |
| 227. | Annex 18.9 <i>“Email from Kenneth Kung (Operations Officer) to Patrick Pang (DOD) with 4 pages of photos”</i> | 15/11/2017 (8:34 am) | KMB-12(A) | 5154 – 5158 |
| 228. | Annex 18.10 <i>“Email from Patrick Pang (DOD) to Leung Kin Wang (OD) with 4 pages of photos”</i> | 15/11/2017 (1:19 pm) | KMB-12(A) | 5159 – 5163 |
| 229. | Annex 18.11 <i>“Email from Kenneth Fung (Operations Officer) to Patrick Pang (DOD) and some previous email correspondence”</i> | 20/11/2017 (8:16 pm) | KMB-12(A) | 5164 – 5165 5166 – 5167 (Translation) |
| 230. | Annex 18.12 <i>“Email from Kenneth Fung (Operations Officer) to Patrick</i> | 23/11/2017 (10:58 am) | KMB-12(A) | 5168 – 5174 |

| | | | | |
|------|---|--------------------------|-----------|---|
| | <i>Pang (DOD) and some previous email correspondence with 4 photos”</i> | | | 5175 – 5181 (Translation) |
| 231. | Annex 18.13 <i>“Email from Kenneth Fung (Operations Officer) to Patrick Pang (DOD) and some previous email correspondence”</i> | 09/02/2018 (11:41 am) | KMB-12(A) | 5182 – 5186 5187 – 5191 (Translation) |
| 232. | Annex 18.14 <i>“Pro forma report to Police on illegal parking”</i> | -- | KMB-12(A) | 5192 5193 (Translation) |
| 233. | Annex 18.15 <i>“Powerpoint presentation on the work procedure of reporting to Police on illegal parking”</i> | -- | KMB-12(A) | 5194 – 5204 5205 – 5215 (Translation) |
| 234. | Annex 18.16 <i>“Record of report to Police on illegal parking updated as at 6 August 2018”</i> | -- | KMB-12(A) | 5216 – 5217 5218 – 5220 (Translation) |
| 235. | Annex 19.1 <i>“Table identifying relevant parties in email correspondence”</i> | -- | KMB-12(B) | 5221 |
| 236. | Annex 19.2 <i>“Chronology and summary of emails between KMB and Openmatics“</i> | -- | KMB-12(B) | 5222 |
| 237. | Annex 19.3 <i>“Chronology and summary of emails between KMB and Alexander Dennis”</i> | -- | KMB-12(B) | 5223 |
| 238. | Annex 19.4 <i>“Chronology and summary of</i> | -- | KMB-12(B) | 5224 |

| | | | | |
|------|--|--------------------------|-----------|------|
| | <i>emails between KMB and Volvo”</i> | | | |
| 239. | Annex 19.5 <i>“Email from Jan Kulis of Openmatics to Chun Kin Chan (SER)”</i> | 02/08/2018 (9:44 pm) | KMB-12(B) | 5225 |
| 240. | Annex 19.6 <i>“Email from Chun Kin Chan (SER) to Jan Kulis of Openmatics”</i> | 03/08/2018 (8:36 am) | KMB-12(B) | 5226 |
| 241. | Annex 19.7 <i>“Email from Chun Kin Chan (SER) to Jan Kulis of Openmatics”</i> | 04/08/2018 (1:28 pm) | KMB-12(B) | 5227 |
| 242. | Annex 19.8 <i>“Email from Jan Kulis of Openmatics to Chun Kin Chan (SER)”</i> | 06/08/2018 (2:30 pm) | KMB-12(B) | 5228 |
| 243. | Annex 19.9 <i>“Email from Chun Kin Chan (SER) to Jan Kulis of Openmatics”</i> | 06/08/2018 (2:42 pm) | KMB-12(B) | 5229 |
| 244. | Annex 19.10 <i>“Email from Chun Kin Chan (SER) to Jan Kulis of Openmatics”</i> | 17/08/2018 (10:33 am) | KMB-12(B) | 5230 |
| 245. | Annex 19.11 <i>“Email from Chun Kin Chan (SER) to Jan Kulis of Openmatics”</i> | 17/08/2018 (1:02 pm) | KMB-12(B) | 5231 |
| 246. | Annex 19.12 <i>“Email from Jan Kulis of Openmatics to Chun Kin Chan (SER)”</i> | 17/08/2018 (5:51 pm) | KMB-12(B) | 5232 |
| 247. | Annex 19.13 <i>“Email from Jan Kulis of Openmatics to Chun Kin Chan (SER)”</i> | 17/08/2018 (7:35 pm) | KMB-12(B) | 5233 |
| 248. | Annex 19.14 <i>“Email from Sai Lok Ho (SER) to Andy Boulton of Alex Dennis”</i> | 29/03/2018 (7:03 pm) | KMB-12(B) | 5234 |
| 249. | Annex 19.15 <i>“Email from Sai Lok Ho (SER) to Andy Boulton of Alex Dennis”</i> | 28/05/2018 (6:30 pm) | KMB-12(B) | 5235 |

| | | | | |
|--|--|-------------------------|-----------|--------|
| 250. | Annex 19.16 <i>“Email from Andy Boulton of Alex Dennis to Sai Lok Ho (SER)”</i> | 06/07/2018 (6:46 pm) | KMB-12(B) | 5236 |
| 251. | Annex 19.17 <i>“Email from Sai Lok Ho (SER) to Andy Boulton of Alex Dennis”</i> | 02/08/2018 (2:40 pm) | KMB-12(B) | 5237 |
| 252. | Annex 19.18 <i>“Email from Andy Boulton of Alex Dennis to Sai Lok Ho (SER)”</i> | 02/08/2018 (2:44 pm) | KMB-12(B) | 5238 |
| 253. | Annex 19.19 <i>“Email from Sai Lok Ho (SER) to Andy Boulton of Alex Dennis”</i> | 03/08/2018 (9:42 am) | KMB-12(B) | 5239 |
| 254. | Annex 19.20 <i>“Email from Andy Boulton of Alex Dennis to Sai Lok Ho (SER)”</i> | 03/08/2018 (1:03 pm) | KMB-12(B) | 5240 |
| 255. | Annex 19.21 <i>“Email from Sai Lok Ho (SER) to Scott Harvey of Volvo”</i> | 29/03/2018 (7:05 pm) | KMB-12(B) | 5241 |
| 256. | Annex 19.22 <i>“Email from Sai Lok Ho (SER) to Julian Lu of Volvo”</i> | 28/05/2018 (6:28 pm) | KMB-12(B) | 5242 |
| 257. | Annex 19.23 <i>“Email from Julia Lu of Volvo to Sai Lok Ho (SER)”</i> | 29/05/2018 (8:58 am) | KMB-12(B) | 5243 |
| 258. | Annex 19.24 <i>“Email from Sai Lok Ho (SER) to Julian Lu of Volvo”</i> | 02/08/2018 (2:32 pm) | KMB-12(B) | 5244 |
| 259. | Annex 19.25 <i>“Email from Julia Lu of Volvo to Sai Lok Ho (SER)”</i> | 02/08/2018 (3:01 pm) | KMB-12(B) | 5245 |
| 260. | Annex 19.26 <i>“Email from Sai Lok Ho (SER) to Julian Lu of Volvo”</i> | 03/08/2018 (9:44 am) | KMB-12(B) | 5246 |
| 261. | Annex 19.27 <i>“Email from Julia Lu of Volvo to Sai Lok Ho (SER)”</i> | 06/08/2018 (9:21 am) | KMB-12(B) | 5247 |
| Supplemental Information provided by KMB to the IRC on 11 September 2018 | | | | |
| 262. | Extract of KMB’s 5 year plan 2013 | -- | KMB-12(B) | 5248 – |

| | | | | |
|--|--|--------------------------------|-----------|-------------|
| | – 2017 – Chapter 8 (Bus Safety) | | | 5266 |
| 263. | Extract of KMB's 5 year plan 2014 – 2018 – Chapter 8 (Bus Safety) | -- | KMB-12(B) | 5267 – 5285 |
| 264. | Extract of KMB's 5 year plan 2015 – 2019 – Chapter 8 (Bus Safety) | -- | KMB-12(B) | 5286 – 5302 |
| 265. | Extract of KMB's 5 year plan 2016 – 2020 – Chapter 8 (Bus Safety) | -- | KMB-12(B) | 5303 – 5319 |
| 266. | Extract of KMB's 5 year plan 2017 – 2021 – Chapter 8 (Bus Safety) | -- | KMB-12(B) | 5320 – 5336 |
| 267. | Extract of LWB's 5 year plan 2013 – 2017 – Chapter 8 (Safety Review and Improvement Measures in Bus Operation) | -- | KMB-12(B) | 5337 – 5351 |
| 268. | Extract of LWB's 5 year plan 2014 – 2018 – Chapter 8 (Safety Review and Improvement Measures in Bus Operation) | -- | KMB-12(B) | 5352 – 5366 |
| 269. | Extract of LWB's 5 year plan 2015 – 2019 – Chapter 8 (Safety Review and Improvement Measures in Bus Operation) | -- | KMB-12(B) | 5367 – 5383 |
| 270. | Extract of LWB's 5 year plan 2016 – 2020 – Chapter 8 (Safety Review and Improvement Measures in Bus Operation) | -- | KMB-12(B) | 5384 – 5400 |
| 271. | Extract of LWB's 5 year plan 2017 – 2021 – Chapter 8 (Safety Review and Improvement Measures in Bus Operation) | -- | KMB-12(B) | 5401 – 5419 |
| Annexes to the Reply Letter from KMB & LWB to IRC dated 3 October 2018 in response to IRC's letter dated 21 September 2018 | | | | |
| 272. | Annex 1(a)(i) Sudden Acceleration Report for Selected Bus Captains | 24/07/2018 to 30/07/2018 | KMB-12(B) | 5420 – 5577 |
| 273. | Annex 1(b)(i) Harsh Braking Report for Selected Bus Captains | 24/07/2018 to 30/07/2018 | KMB-12(B) | 5578 – 5595 |
| 274. | Annex 3(a) | 30/08/2018 | KMB-12(B) | 5596 |

| | | | | |
|------|--------------------------------------|------------|-----------|------|
| | BOP207 Speeding Report | | | |
| 275. | Annex 3(b) BOP207 Speeding Report | 02/09/2018 | KMB-12(B) | 5597 |
| 276. | Annex 3(c) BOP207 Speeding Report | 06/09/2018 | KMB-12(B) | 5598 |

From: Gary Wong SSQ

Sent: Friday, August 22, 2014 5:34 PM

To: Kin Keung Woo TM; Siu Hung Fung ST; Andrew Kwan LCK; Kwok Ho Yeung KB; Henry Yeung LCK; Al Law ST; Dennis Ng KB; Henry Yeung LCK; Kevin Kwan TM

Cc: Richard Lee HR; Safety & Service Quality Department

Subject: RE: Proper names of Identified Sharp bends/ Roundabouts

Dear All,

Further to my email this afternoon regarding the above captioned subject, two more location names from STD are revised and highlighted in **red** below. Attached please find the final version of "Safe Speed Limit" card which will be passed to Printing Section of CFMD for necessary action.

| 車廠 | 急彎/迴旋處 | | 安全限速(km/h) |
|------|---------------------------|-------------------------|------------|
| | Original | Revised | |
| 九龍灣廠 | 西貢公路天橋往清水灣道 | 清水灣道往西貢公路 | 15 |
| 九龍灣廠 | 將軍澳道(南行)往秀茂坪道 | 將軍澳道(北行)往秀茂坪道 | 20 |
| 屯門廠 | 皇珠路(東行)往海皇路 (南行) | 皇珠路(九龍方向)往海皇路 (屯門南廠方向) | 25 |
| 屯門廠 | 青山公路(大欖)(南行) 往屯門公路(北行) | 青山公路(大欖)往屯門公路 (屯門方向) | 25 |
| 屯門廠 | 洪天路(南行)往元朗公路(南行) | 洪天路往元朗公路(屯門方向) | 25 |
| 荔枝角廠 | 興華街西近荔寶路迴旋處 | 興華街西入荔寶路迴旋處 | 20 |
| 沙田廠 | 大埔道往吐露港公路 | 大埔公路往吐露港公路 | 25 |
| 沙田廠 | 馬鞍山繞道往西沙路(北行)-大彎 | 馬鞍山繞道往西沙路(北行) | 25 |
| 沙田廠 | 馬鞍山繞道往西沙路(北行)-細彎 | 西沙路往沙安街 | 25 |
| 沙田廠 | 掃管埔路往雞嶺迴旋處 | 新運路往雞嶺迴旋處 | 25 |

Gary
HSSQD

Safe Speed Limit Card (KMB)

Chinese version

| 車廠 | 急彎/迴旋處 | 安全限速 (km/h) |
|------|-----------------------|-------------|
| 九龍灣廠 | 清水灣道往西貢公路 | 15 |
| 九龍灣廠 | 碧雲道往高超道 | 15 |
| 九龍灣廠 | 新清水灣道往順利邨道支路 | 20 |
| 九龍灣廠 | 觀塘道往龍翔道支路 | 20 |
| 九龍灣廠 | 觀塘道往啟祥道 | 20 |
| 九龍灣廠 | 啟祥道往偉業街 | 20 |
| 九龍灣廠 | 啟祥道往啟福道 | 20 |
| 九龍灣廠 | 將軍澳道(北行)往秀茂坪道 | 20 |
| 車廠 | 急彎/迴旋處 | 安全限速 (km/h) |
| 九龍灣廠 | 將軍澳道(南行)往茶果嶺道 | 20 |
| 九龍灣廠 | 將軍澳隧道公路往寶順路 | 20 |
| 九龍灣廠 | 寶順路往寶康路 | 20 |
| 九龍灣廠 | 寶順路往唐明街 | 20 |
| 屯門廠 | 皇珠路(九龍方向)往海皇路(屯門南廠方向) | 25 |
| 屯門廠 | 青山公路(大欖)往屯門公路(屯門方向) | 25 |
| 屯門廠 | 洪天路往元朗公路(屯門方向) | 25 |
| 屯門廠 | 博愛交匯處近往青山公路支路(元朗方向) | 25 |
| 車廠 | 急彎/迴旋處 | 安全限速 (km/h) |
| 荔枝角廠 | 和宜合道右轉梨木樹巴士總站 | 15 |
| 荔枝角廠 | 安足街右轉石排街 | 15 |
| 荔枝角廠 | 涌美路左轉青衣鄉事會路 | 15 |
| 荔枝角廠 | 興華街西入荔寶路迴旋處 | 20 |
| 荔枝角廠 | 興華街西迴旋處近新巴車廠 | 20 |
| 荔枝角廠 | 青衣西路右轉西草灣路 | 20 |
| 荔枝角廠 | 寮肚路左/右轉青衣西路 | 20 |
| 荔枝角廠 | 青康路左轉青衣路 | 20 |
| 車廠 | 急彎/迴旋處 | 安全限速 (km/h) |
| 沙田廠 | 大埔公路往吐露港公路 | 25 |
| 沙田廠 | 馬鞍山繞道往西沙路(南行) | 25 |
| 沙田廠 | 馬鞍山繞道往西沙路(北行) | 25 |
| 沙田廠 | 西沙路往沙安街 | 25 |
| 沙田廠 | 青沙公路往美田路 | 25 |
| 沙田廠 | 掃管埔路往新運路(往粉嶺/石湖墟) | 25 |
| 沙田廠 | 新運路往雞嶺迴旋處 | 25 |

2014 年 10 月版

English version

| Depot | Location of Sharp Bend/Roundabout | Safe Speed Limit (km/h) |
|-------|--|-------------------------|
| KBD | Clear Water Bay Road to Hiram's Highway | 15 |
| KBD | Pik Wan Road to Ko Chiu Road | 15 |
| KBD | New Clear Water Bay Road to Shun Lee Tsuen Road slip road | 20 |
| KBD | Kwun Tong Road to Lung Cheung Road slip road | 20 |
| KBD | Kwun Tong Road to Kai Cheung Road | 20 |
| KBD | Kai Cheung Road to Wai Yip Street | 20 |
| KBD | Kai Cheung Road to Kai Fuk Road | 20 |
| KBD | Tseung Kwan O Road (North Bound) to Sau Mau Ping Road | 20 |
| Depot | Location of Sharp Bend/Roundabout | Safe Speed Limit (km/h) |
| KBD | Tseung Kwan O Road (South Bound) to Cha Kwo Ling Road | 20 |
| KBD | Tseung Kwan O Tunnel Road into Po Shun Road | 20 |
| KBD | Po Shun Road into Po Hong Road | 20 |
| KBD | Po Shun Road onto Tong Ming Street | 20 |
| TMD | From Wong Chu Road (Kowloon Bound) to Hoi Wong Road (Tuen Mun South Depot Bound) | 25 |
| TMD | From Castle Peak Road (Tai Lam) to Tuen Mun Road (Tuen Mun Bound) | 25 |
| TMD | From Hung Tin Road to Yuen Long Highway (Tuen Mun Bound) | 25 |
| TMD | Pok Oi Interchange near the slip road to Castle Peak Road (Yuen Long Bound) | 25 |
| Depot | Location of Sharp Bend/Roundabout | Safe Speed Limit (km/h) |
| LCKD | Wo Yi Hop Road right turn onto Lei Muk Shue B/T | 15 |
| LCKD | On Chuk Street right turn onto Shek Pai Street | 15 |
| LCKD | Chung Mei Rd. left turn onto Tsing Yi Heung Sze Wui Rd | 15 |
| LCKD | Hing Wah Street West onto Lai Po Road Roundabout | 20 |
| LCKD | Hing Wah Street West Roundabout near depot of NWFB | 20 |
| LCKD | Tsing Yi Road West right turn onto Sai Tso Wan Road | 20 |
| LCKD | Liu To Road left / right turn onto Tsing Yi Road West | 20 |
| LCKD | Tsing Hong Road left turn onto Tsing Yi Road | 20 |
| Depot | Location of Sharp Bend/Roundabout | Safe Speed Limit (km/h) |
| STD | Tai Po Road to Tolo Highway | 25 |
| STD | Ma On Shan Bypass to Sai Sha Road (South Bound) | 25 |
| STD | Ma On Shan Bypass to Sai Sha Road (North Bound) | 25 |
| STD | Sai Sha Road to Sha On Street | 25 |
| STD | Tsing Sha Highway to Mei Tin Road | 25 |
| STD | So Kwun Po Road to San Wan Road (to Fanling / Shek Wu Hui) | 25 |
| STD | San Wan Road to Kai Leng Roundabout | 25 |

Oct 2014 version

From: Gary Wong SSQ

Sent: Friday, August 22, 2014 5:34 PM

To: Kin Keung Woo TM; Siu Hung Fung ST; Andrew Kwan LCK; Kwok Ho Yeung KB; Henry Yeung LCK; Al Law ST; Dennis Ng KB; Henry Yeung LCK; Kevin Kwan TM

Cc: Richard Lee HR; Safety & Service Quality Department

Subject: RE: Proper names of Identified Sharp bends/ Roundabouts

Dear All,

Further to my email this afternoon regarding the above captioned subject, two more location names from STD are revised and highlighted in red below. Attached please find the final version of “Safe Speed Limit” card which will be passed to Printing Section of CFMD for necessary action.

| Depot | Sharp bends/ Roundabouts | | Safe Speed Limit |
|-------------------|--|--|------------------|
| | Original | Revised | |
| Kowloon Bay Depot | Hiran's Highway Flyover to Clear Water Bay Road | Clear Water Bay Road to Hiram's Highway | 15 |
| Kowloon Bay Depot | Tseung Kwan O Road (South Bound) to Sau Mau Ping Road | Tseung Kwan O Road (North Bound) to Sau Mau Ping Road | 20 |
| Tuen Mun Depot | From Wong Chu Road (East Bound) to Hoi Wong Road (South Bound) | From Wong Chu Road (Kowloon Bound) to Hoi Wong Road (Tuen Mun South Depot Bound) | 25 |
| Tuen Mun Depot | From Castle Peak Road (Tai Lam) (South Bound) to Tuen | From Castle Peak Road (Tai Lam) to Tuen Mun Road | 25 |

| | | | |
|----------------------|---|--|----|
| | Mun Road (North Bound) | (Tuen Mun Bound) | |
| Tuen Mun Depot | From Hung Tin Road (South Bound) to Yuen Long Highway (South Bound) | From Hung Tin Road to Yuen Long Highway (Tuen Mun Bound) | 25 |
| Lai Chi Kok Depot | High Wah Street West near Lai Po Road Roundabout | High Wah Street West onto Lai Po Road Roundabout | 20 |
| Sha Tin Depot | Tai Po Road to Tolo Highway | Tai Po Road to Tolo Highway | 25 |
| Sha Tin Depot | Ma On Shan Bypass to Sai Sha Road (North Bound) – Big bend | Ma On Shan Bypass to Sai Sha Road (North Bound) | 25 |
| Sha Tin Depot | Ma On Shan Bypass to Sai Sha Road (North Bound) – Small bend | Sai Sha Road to Sha On Street | 25 |
| Sha Tin Depot | So Kwun Po Road to Kai Leng Roundabout | San Wan Road to Kai Leng Roundabout | 25 |

From: Jenny Yu SSQ
Sent: Wednesday, August 27, 2014 11:11 AM
To: Al Law ST; Dennis Ng KB; Henry Yeung LCK; Kevin Kwan TM
Cc: Aman Fong SSQ; Gary Wong SSQ; Hoi Keung Ng SSQ; Raymond Cheng SSQ; Shu Kai Lam SSQ
Subject: Safe Speed Limit Training Video - Staff List

Dear All,

Re the captioned, I have created 30 excel files in SSQ Share Folder (Y:\SSQ\Sharp Bends_Roundabouts\Staff List - Safe Speed Limit Training Video), please input 3 types of information for each excel file:

1. Employee No.
2. Depot (KB/LCK/STD/TM) [Please follow these depot codes exactly]
3. Bus Rt No.

Please feel free to contact me if you have any queries and send a notification email to us upon completion of the data input.

Thanks and regards,
Jenny

From: Gary Wong SSQ
Sent: Wednesday, August 27, 2014 11:42 AM
To: Al Law ST; Dennis Ng KB; Henry Yeung LCK; Kevin Kwan TM
Cc: Aman Fong SSQ; Hoi Keung Ng SSQ; Raymond Cheng SSQ; Shu Kai Lam SSQ; Jenny Yu SSQ
Subject: RE: Safe Speed Limit Training Video - Staff List

Dear All,

Pls. proceed according to the Communication Plan as the plan was agreed by OD.

Gary
HSSQD

From: Kwok Ho Yeung KB
Sent: Friday, September 19, 2014 12:52 PM
To: Gary Wong SSQ
Cc: Aman Fong SSQ; Kin Keung Woo TM; Andrew Kwan LCK; Siu Hung Fung ST; Chi Man Ho DOD
Subject: Records of Watching Video of Sharp Bends for Route Familiarization

Dear Gary,

I refer to the captioned subject and, on behalf of Depots, please be informed that Depots only agreed with reminding the BC to watch the video of sharp bends concerning route familiarization in the previous meeting and we will not mark their watching records. By the way, we have already kept the critical briefing records of speed limits at various sharp bends as evidence of BC's awareness.

Regards,

Yeung Kwok Ho

From: Kwok Ho Yeung KB
Sent: Friday, September 19, 2014 2:53 PM
To: Gary Wong SSQ
Cc: Aman Fong SSQ; Kin Keung Woo TM; Andrew Kwan LCK; Siu Hung Fung ST; Chi Man Ho DOD; Dennis Ng KB
Subject: RE: 回覆： Records of Watching Video of Sharp Bends for Route Familiarization

Dear all,

One clarification is that these videos are restricted to the selected BCs on Staff Web now.

Regards,

Yeung Kwok Ho

From: Gary Wong SSQ
Sent: Friday, September 19, 2014 3:23 PM
To: Kwok Ho Yeung KB; Gary Wong SSQ
Cc: Aman Fong SSQ; Kin Keung Woo TM; Andrew Kwan LCK; Siu Hung Fung ST; Chi Man Ho DOD; Dennis Ng KB
Subject: 回覆： RE: 回覆： Records of Watching Video of Sharp Bends for Route Familiarization

Yes. This approach is based on the advice from MD.

Gary

From: Jenny Yu SSQ
Sent: Thursday, September 25, 2014 12:37 PM
To: Al Law ST; Dennis Ng KB; Henry Yeung LCK; Kevin Kwan TM
Cc: Aman Fong SSQ; Gary Wong SSQ; Hoi Keung Ng SSQ; Shu Kai Lam SSQ
Subject: FW: KMB SSQ - 安全限速提示咭 / KMB-QS-14016

Dear All,

The safe speed limit cards have been delivered to SSQD today. The invoices in hard copy will be sent to you by today. Kindly please settle the payment accordingly upon receiving the invoices.

The cards will be dispatched to you in Oct 2014 after the completion of the denoted items mentioned in the communication plan.

Please feel free to talk if you have any queries.

Thanks and regards,
Jenny

From: Gary Wong SSQ
Sent: Wednesday, October 08, 2014 9:47 AM
To: Al Law ST; Dennis Ng KB; Henry Yeung LCK; Kevin Kwan TM
Cc: Safety & Service Quality Department
Subject: Progress on Implementation of Safe Speed Limits

Dear All,

Pls. fill in the actual completion date for action item #2 and how many days to complete action items #6 & 7.

Actually, this practice should be started after the pass away of "Occupy Central"

Pls. revert by 10 Oct 2014 (Fri).

Gary
HSSQD

From: Gary Wong SSQ
Sent: Friday, October 24, 2014 9:50 AM
To: Al Law ST; Dennis Ng KB; Henry Yeung LCK; Kevin Kwan TM; Siu Wah Ma LWB
Cc: Safety & Service Quality Department
Subject: FW: Progress on Implementation of Safe Speed Limits

Dear All,

I have revised action items 7 & 8 and added action item 9 in the attached file.

Gary
HSSQD

Implementation of Safe Speed limits – 31 Sharp Bends & Roundabouts

| Action Item | LCKD | STD | KBD | TMD | LWB |
|---|---|------------|------------|------------|---------------------------|
| 1) Update driving tips in staff website. | 30/09/2014 | | | | |
| 2) Update album and kept in relevant TS offices/designated locations. | 08/10/2014 | 15/10/2014 | 08/10/2014 | 08/10/2014 | N/A |
| 3) Identify name list of relevant BC for each specific route. | 26/09/2014 | 24/09/2014 | | | |
| 4) Upload the name list of relevant BC and the safety videos (including convert the format) in staff website. | To be done by SSQD, ITD and HRD in mid Oct 2014 | | | | |
| 5) Collect “Safe Speed Limits” cards from the vendor. | Available on 25 Sep 2014 | | | | Available on 29 Sep. 2014 |
| 6) Update the progress and seek OD’s approval. | To be done by SSQD upon completion of action items 1) to 4) | | | | |
| 7) Conduct briefings (with briefing note) on safe speed limits and issue “Safe Speed Limits” cards to all TS and Inspectors who will brief all involved BC. | Within 2 weeks after the “Occupy Central” | | | | |
| 8) Conduct briefings (with briefing note) on safe speed limits and issue “Safe Speed Limits” cards to all buddy drivers who will brief the same safety issues to relevant new BC during share ride. | | | | | |
| 9) Conduct briefings on safe speed limits and issue “Safe Speed Limits” cards to all involved staff of Duty Dispatch Section (DSS) who will brief the BC concerned after completion of route familiarization. | | | | | |
| 10) Inform BCTS and PMS the effective day of safe speed limits. | | | | | |
| 11) Issue internal notice for the implementation of safe speed limits. | | | | | |
| 12) Issue “Safe Speed Limits” cards and conduct briefings to all involved BC with briefing note by inspectors and TS. | | | | | N/A |

From: Gary Wong SSQ
Sent: Thursday, January 08, 2015 12:12 PM
To: Al Law ST; Dennis Ng KB; Henry Yeung LCK; Kevin Kwan TM; Mike Ho LWB
Cc: Safety & Service Quality Department
Subject: RE: Progress on Implementation of Safe Speed Limits

Dear All,





Following the completion of the clearance of protest sites in Dec. 2014, I intend to raise the "Speed Limits for the 31 identified sharp bends and roundabouts" issue and seek OD's approval on next week.

In this connection, the action plan is revised. Pls. let me know if the timeline or proposed actions need to be further revised.

Pls. revert by **13 Jan. 2015 (Wed)**.

Gary
HSSQD

Implementation of Safe Speed limits – 31 Sharp Bends & Roundabouts

| Action Item | LCKD | STD | KBD | TMD | LWB |
|--|--|-----|-----|-----|-----|
| 1) Collect “Safe Speed Limits” cards from the vendor.   Safe Speed Limit Card-KMB (Chi) R5 (Card-LWB (Chi).pdf | Available on 29 Sep. 2014 | | | | |
| 2) Update driving tips in staff website. | 30 Sep. 2014 | | | | |
| 3) Identify and update the name list of relevant BC for each specific route. | 23 Jan. 2015 | | | | |
| 4) Upload the name list of relevant BC and the safety videos (including convert the format) in staff website. | 28 Jan. 2015 | | | | |
| 5) Seek OD’s approval. | To be done by SSQD upon completion of action items 1) to 4) | | | | |
| 6) Issue internal notice for the implementation of safe speed limits.  Internal notice for 31 Sharp Bends and Rour | Within 2 weeks upon approval by OD. | | | | |
| 7) Inform BCTS and PMS the effective day of safe speed limits. | Immediate after issuance of internal notice. | | | | |
| 8) Conduct briefings (with briefing note) on safe speed limits and issue “Safe Speed Limits” cards to all TS and Inspectors who will brief all involved BC.  Briefing note for implementation of 31 | Within 2 weeks upon approval by OD | | | | |
| 9) Conduct briefings (with briefing note) on safe speed limits and issue “Safe Speed Limits” cards to all buddy drivers who will brief the same safety issues to relevant new BC during share ride. | | | | | |
| 10) Conduct briefings on safe speed limits and issue “Safe Speed Limits” cards to all involved staff of Duty Dispatch Section (DSS) who will brief the BC concerned after completion of route familiarization. | | | | | |
| 11) Issue “Safe Speed Limits” cards and conduct briefings to all involved BC with briefing note by inspectors and TS. | a) To be completed within 1 month (Scheduled BC and Part-time BC). b) To be completed within 2 months (including spare BC). | | | | |

| 車廠 | 急彎/迴旋處 | 安全限速 (km/h) | 車廠 | 急彎/迴旋處 | 安全限速 (km/h) |
|------|---------------------------|----------------|---|-------------------|----------------|
| 九龍灣廠 | 清水灣道往西貢公路 | 15 | 荔枝角廠 | 和宜合道右轉梨木樹巴士總站 | 15 |
| 九龍灣廠 | 碧雲道往高超道 | 15 | 荔枝角廠 | 安足街右轉石排街 | 15 |
| 九龍灣廠 | 新清水灣道往順利邨道支路 | 20 | 荔枝角廠 | 涌美路左轉青衣鄉事會路 | 15 |
| 九龍灣廠 | 觀塘道往龍翔道支路 | 20 | 荔枝角廠 | 興華街西入荔寶路迴旋處 | 20 |
| 九龍灣廠 | 觀塘道往啓祥道 | 20 | 荔枝角廠 | 興華街西迴旋處近新巴車廠 | 20 |
| 九龍灣廠 | 啓祥道往偉業街 | 20 | 荔枝角廠 | 青衣西路右轉西草灣路 | 20 |
| 九龍灣廠 | 啓祥道往啓福道 | 20 | 荔枝角廠 | 寮肚路左/右轉青衣西路 | 20 |
| 九龍灣廠 | 將軍澳道(北行)往秀茂坪道 | 20 | 荔枝角廠 | 青康路左轉青衣路 | 20 |
| 車廠 | 急彎/迴旋處 | 安全限速 (km/h) | 車廠 | 急彎/迴旋處 | 安全限速 (km/h) |
| 九龍灣廠 | 將軍澳道(南行)往茶果嶺道 | 20 | 沙田廠 | 大埔公路往吐露港公路 | 25 |
| 九龍灣廠 | 將軍澳隧道公路往寶順路 | 20 | 沙田廠 | 馬鞍山繞道往西沙路(南行) | 25 |
| 九龍灣廠 | 寶順路往寶康路 | 20 | 沙田廠 | 馬鞍山繞道往西沙路(北行) | 25 |
| 九龍灣廠 | 寶順路往唐明街 | 20 | 沙田廠 | 西沙路往沙安街 | 25 |
| 屯門廠 | 皇珠路(九龍方向)往海皇路 (屯門南廠方向) | 25 | 沙田廠 | 青沙公路往美田路 | 25 |
| 屯門廠 | 青山公路(大欖)往屯門公路 (屯門方向) | 25 | 沙田廠 | 掃管埔路往新運路(往粉嶺/石湖墟) | 25 |
| 屯門廠 | 洪天路往元朗公路(屯門方向) | 25 | 沙田廠 | 新運路往雞嶺迴旋處 | 25 |
| 屯門廠 | 博愛交匯處近往青山公路支路 (元朗方向) | 25 |  2014年10月版 | | |

|  龍運巴士有限公司 | | 2014 年 10 月版 |
|--|------------|--------------|
| 急彎/迴旋處 | 最高限速(km/h) | 有關路線 |
| 青康路左轉青衣路 | 20 | A31, E32 |
| 馬鞍山繞道往西沙路(北行) | 25 | A41P, 私牌 |
| 西沙路往沙安街 | 25 | |
| 掃管埔路往新運路(往粉嶺/石湖墟) | 25 | A43, N42A |
| 新運路往雞嶺迴旋處 | 25 | |
| 皇珠路(九龍方向)往海皇路(屯門南廠方向) | 25 | 私牌 |
| 洪天路往元朗公路(屯門方向) | 25 | N30 |
| 博愛交匯處近往青山公路支路(元朗方向) | 25 | E34, 私牌 |

急彎/迴旋處之安全限速

為提升各同事對於交通路面急彎/迴旋處之安全駕駛意識，公司就 31 個急彎/迴旋處的位置設定安全限速。

同時，公司已印製「安全限速」提示咭予各同事，以便查閱駕駛路線所涉及有關急彎/迴旋處位置之安全限速。各同事須因應路面情況以不超過有關急彎/迴旋處的安全限速駕駛，以免發生意外。

有關 31 個急彎/迴旋處的位置及所設定安全限速之詳情，請參閱附表：

| 車廠 | 急彎/迴旋處 | 安全限速(km/h) |
|------|---------------|------------|
| 九龍灣廠 | 清水灣道往西貢公路 | 15 |
| 九龍灣廠 | 碧雲道往高超道 | 15 |
| 九龍灣廠 | 新清水灣道往順利邨道支路 | 20 |
| 九龍灣廠 | 觀塘道往龍翔道支路 | 20 |
| 九龍灣廠 | 觀塘道往啓祥道 | 20 |
| 九龍灣廠 | 啓祥道往偉業街 | 20 |
| 九龍灣廠 | 啓祥道往啟福道 | 20 |
| 九龍灣廠 | 將軍澳道(北行)往秀茂坪道 | 20 |
| 九龍灣廠 | 將軍澳道(南行)往茶果嶺道 | 20 |

| | | |
|------|------------------------|----|
| 九龍灣廠 | 將軍澳隧道公路往寶順路 | 20 |
| 九龍灣廠 | 寶順路往寶康路 | 20 |
| 九龍灣廠 | 寶順路往唐明街 | 20 |
| 屯門廠 | 皇珠路(九龍方向)往海皇路 (屯門南廠方向) | 25 |
| 屯門廠 | 青山公路(大欖)往屯門公路 (屯門方向) | 25 |
| 屯門廠 | 洪天路往元朗公路 (屯門方向) | 25 |
| 屯門廠 | 博愛交匯處近往青山公路支路 (元朗方向) | 25 |
| 荔枝角廠 | 和宜合道右轉梨木樹巴士總站 | 15 |
| 荔枝角廠 | 安足街右轉石排街 | 15 |
| 荔枝角廠 | 涌美路左轉青衣鄉事會路 | 15 |
| 荔枝角廠 | 興華街西入荔寶路迴旋處 | 20 |
| 荔枝角廠 | 興華街西迴旋處近新巴車廠 | 20 |
| 荔枝角廠 | 青衣西路右轉西草灣路 | 20 |
| 荔枝角廠 | 寮肚路左/右轉青衣西路 | 20 |
| 荔枝角廠 | 青康路左轉青衣路 | 20 |
| 沙田廠 | 大埔公路往吐露港公路 | 25 |
| 沙田廠 | 馬鞍山繞道往西沙路(南行) | 25 |
| 沙田廠 | 馬鞍山繞道往西沙路(北行) | 25 |
| 沙田廠 | 西沙路往沙安街 | 25 |
| 沙田廠 | 青沙公路往美田路 | 25 |
| 沙田廠 | 掃管埔路往新運路(往粉嶺/石湖墟) | 25 |
| 沙田廠 | 新運路往雞嶺迴旋處 | 25 |


有關 31 個急彎/迴旋處安全限速將於
2015 年 1 月 30 日起實施。


急彎/迴旋處安全限速

- 1) 公司已就 31 個急彎/迴旋處設定安全限速。
- 2) 為咗方便查閱對你駕駛路線所涉及有關急彎/迴旋處嘅安全限速，依家派發「安全限速」提示咭。
- 3) 請你因應路面情況以不超過有關急彎/迴旋處的安全限速駕駛。

| Depot | Sharp bends/ Roundabouts | Safe Speed Limit (Km/h) | Depot | Sharp bends/ Roundabouts | Safe Speed Limit (Km/h) |
|-------------------------|--|--|-------------------------|--|--|
| Kowloon Bay Depot | Clear Water Bay Road to Hiram's Highway | 15 | Lai Chi Kok Depot | Wo Yi Hop Road right turn onto Lei Muk Shue B/T | 15 |
| Kowloon Bay Depot | Pik Wan Road to Ko Chiu Road | 15 | Lai Chi Kok Depot | On Chuk Street right turn onto Shek Pai Street | 15 |
| Kowloon Bay Depot | New Clear Water Bay Road to Shun Lee Tsuen Road slip road | 20 | Lai Chi Kok Depot | Chung Mei Rd. left turn onto Tsing Yi Heung Sze Wui Rd | 15 |
| Kowloon Bay Depot | Kwun Tong Road to Lung Cheung Road slip road | 20 | Lai Chi Kok Depot | Hing Wah Street West onto Lai Po Road Roundabout | 20 |
| Kowloon Bay Depot | Kwun Tong Road to Kai Cheung Road | 20 | Lai Chi Kok Depot | Hing Wah Street West Roundabout near depot of NWFB | 20 |
| Kowloon Bay Depot | Kai Cheung Road to Wai Yip Street | 20 | Lai Chi Kok Depot | Tsing Yi Road West right turn onto Sai Tso Wan Road | 20 |

| | | | | | |
|-------------------|---|--------------------------------|-------------------|--|--------------------------------|
| Kowloon Bay Depot | Kai Cheung Road to Kai Fuk Road | 20 | Lai Chi Kok Depot | Liu To Road left/ right turn onto Tsing Yi Road West | 20 |
| Kowloon Bay Depot | Tseung Kwan O Road (North Bound) to Sau Mau Ping Road | 20 | Lai Chi Kok Depot | Tsing Hong Road left turn onto Tsing Yi Road | 20 |
| Depot | Sharp bends/ Roundabouts | Safe Speed Limit (Km/h) | Depot | Sharp bends/ Roundabouts | Safe Speed Limit (Km/h) |
| Kowloon Bay Depot | Tseung Kwan O Road (South Bound) to Cha Kwo Ling Road | 20 | Sha Tin Depot | Tai Po Road to Tolo Highway | 25 |
| Kowloon Bay Depot | Tseung Kwan O Tunnel Road into Po Shun Road | 20 | Sha Tin Depot | Ma On Shan Bypass to Sai Sha Road (South Bound) | 25 |
| Kowloon Bay Depot | Po Shun Road into Po Hong Road | 20 | Sha Tin Depot | Ma On Shan Bypass to Sai Sha Road (North Bound) | 25 |
| Kowloon Bay Depot | Po Shun Road onto Tong Ming Street | 20 | Sha Tin Depot | Sai Sha Road to Sha On Street | 25 |
| Tuen Mun Depot | From Wong Chu Road (Kowloon | 25 | Sha Tin Depot | Tsing Sha Highway to Mei Tin Road | 25 |

| | | | | | |
|----------------------|---|----|--|--|----|
| | Bound) to Hoi Wong Road (Tuen Mun South Depot Bound) | | | | |
| Tuen Mun Depot | From Castle Peak Road (Tai Lam) to Tuen Mun Road (Tuen Mun Bound) | 25 | Sha Tin Depot | So Kwun Po Road to San Wan Road (to Fanling / Shek Wu Hui) | 25 |
| Tuen Mun Depot | From Hung Tin Road to Yuen Long Highway (Tuen Mun Bound) | 25 | Sha Tin Depot | San Wan Road to Kai Leng Roundabout | 25 |
| Tuen Mun Depot | Pok Oi Interchange near the slip road to Castle Peak Road (Yuen Long Bound) | 25 |  Version as of October 2014 | | |

|  Long Win Bus Company Limited | Version as of October 2014 | |
|---|-----------------------------------|-----------------------|
| Sharp bends/ Roundabouts | Maximum Speed Limit (km/h) | Relevant Route |
| Tsing Hong Road left turn onto Tsing Yi Road | 20 | A31, E32 |
| Ma On Shan Bypass to Sai Sha Road (North Bound) | 25 | A41P, Private License |
| Sai Sha Road to Sha On Street | 25 | |
| So Kwun Po Road to San Wan Road (to Fanling / Shek Wu Hui) | 25 | A43, N42A |
| San Wan Road to Kai Leng Roundabout | 25 | |
| From Wong Chu Road (Kowloon Bound) to Hoi Wong Road (Tuen Mun South Depot Bound) | 25 | Private License |
| From Hung Tin Road to Yuen Long Highway (Tuen Mun Bound) | 25 | N30 |
| Pok Oi Interchange near the slip road to Castle Peak Road (Yuen Long Bound) | 25 | E34, Private License |

Safe Speed Limits of Sharp Bends/Roundabouts

To increase all colleagues' awareness of safe driving in respect of the sharp bends/roundabouts of the traffic roads, the Company has set the safe speed limits for the locations of 31 sharp bends/roundabouts.

At the same time, the Company has printed the "Safe Speed Limits" cards for all colleagues to enable all of you to conveniently check the safe speed limits of the relevant locations of the sharp bends/roundabouts involved in the driving routes. All colleagues shall adapt to the road conditions and not exceed the safe speed limits of the relevant sharp bends/roundabouts to prevent accidents.

Please refer to the attached table for the locations and safe speed limits of the 31 sharp bends/roundabouts:

| Depot | Sharp bends/ Roundabouts | Safe Speed Limit (Km/h) |
|-------------------|---|--------------------------------|
| Kowloon Bay Depot | Clear Water Bay Road to Hiram's Highway | 15 |
| Kowloon Bay Depot | Pik Wan Road to Ko Chiu Road | 15 |
| Kowloon Bay Depot | New Clear Water Bay Road to Shun Lee Tsuen Road slip road | 20 |
| Kowloon Bay Depot | Kwun Tong Road to Lung Cheung Road slip road | 20 |
| Kowloon Bay Depot | Kwun Tong Road to Kai Cheung Road | 20 |
| Kowloon Bay Depot | Kai Cheung Road to Wai Yip Street | 20 |
| Kowloon Bay Depot | Kai Cheung Road to Kai Fuk Road | 20 |
| Kowloon Bay Depot | Tseung Kwan O Road (North Bound) to Sau Mau Ping Road | 20 |
| Kowloon Bay Depot | Tseung Kwan O Road (South Bound) to Cha Kwo Ling Road | 20 |

| | | |
|-------------------|--|----|
| Kowloon Bay Depot | Tseung Kwan O Tunnel Road into Po Shun Road | 20 |
| Kowloon Bay Depot | Po Shun Road into Po Hong Road | 20 |
| Kowloon Bay Depot | Po Shun Road onto Tong Ming Street | 20 |
| Tuen Mun Depot | From Wong Chu Road (Kowloon Bound) to Hoi Wong Road (Tuen Mun South Depot Bound) | 25 |
| Tuen Mun Depot | From Castle Peak Road (Tai Lam) to Tuen Mun Road (Tuen Mun Bound) | 25 |
| Tuen Mun Depot | From Hung Tin Road to Yuen Long Highway (Tuen Mun Bound) | 25 |
| Tuen Mun Depot | Pok Oi Interchange near the slip road to Castle Peak Road (Yuen Long Bound) | 25 |
| Lai Chi Kok Depot | Wo Yi Hop Road right turn onto Lei Muk Shue B/T | 15 |
| Lai Chi Kok Depot | On Chuk Street right turn onto Shek Pai Street | 15 |
| Lai Chi Kok Depot | Chung Mei Rd. left turn onto Tsing Yi Heung Sze Wui Rd | 15 |
| Lai Chi Kok Depot | Hing Wah Street West onto Lai Po Road Roundabout | 20 |
| Lai Chi Kok Depot | Hing Wah Street West Roundabout near depot of NWFB | 20 |
| Lai Chi Kok Depot | Tsing Yi Road West right turn onto Sai Tso Wan Road | 20 |
| Lai Chi Kok Depot | Liu To Road left/ right turn onto Tsing Yi Road West | 20 |
| Lai Chi Kok Depot | Tsing Hong Road left turn onto Tsing Yi Road | 20 |
| Sha Tin Depot | Tai Po Road to Tolo Highway | 25 |

| | | |
|---------------|--|----|
| Sha Tin Depot | Ma On Shan Bypass to Sai Sha Road (South Bound) | 25 |
| Sha Tin Depot | Ma On Shan Bypass to Sai Sha Road (North Bound) | 25 |
| Sha Tin Depot | Sai Sha Road to Sha On Street | 25 |
| Sha Tin Depot | Tsing Sha Highway to Mei Tin Road | 25 |
| Sha Tin Depot | So Kwun Po Road to San Wan Road (to Fanling / Shek Wu Hui) | 25 |
| Sha Tin Depot | San Wan Road to Kai Leng Roundabout | 25 |

The safe speed limit in relation to the 31 sharp bends/roundabouts shall be implemented from 30 January 2015.

Safe Speed Limits of Sharp Bends/Roundabouts

- 1) The Company has set the safe speed limits for the 31 sharp bends/roundabouts.
- 2) In order to enable you to conveniently check the safe speed limits of the sharp bends/roundabouts involved in your driving routes, the Company hereby provides the “Safe Speed Limits” cards.
- 3) Please drive in accordance with the road conditions and do not exceed the safe speed limits for the relevant sharp bends/roundabouts.

From: Aman Fong SSQ
Sent: Wednesday, February 11, 2015 6:18 PM
To: Siu Hung Fung ST; Kin Keung Woo TM; Siu Wah Ma LWB; Andrew Kwan LCK; Kwok Ho Yeung KB; Richard Lee HR
Cc: Gary Wong SSQ; Shu Kai Lam SSQ
Subject: RE: sharp bend - review
Importance: High

Dear Sir,

To finalize the speed limit and arrangement, the meeting will be held as follows:

Date: 12.2.2015 (Thursday)

Time: 0900-0930

Venue: Conference Rm 901, HQ

Pls kindly attend.

Sorry for the rush.

Regards,

Aman

From: Gary Wong SSQ
Sent: Thursday, February 12, 2015 11:04 AM
To: Owen Eckford OD
Subject: Safe Speed Limits for the Identified Sharp Bends and Roundabouts

Dear Owen,

A meeting with all depot heads and GM of LWB is held this morning to revisit the safe speed limits for the 31 identified sharp bends and roundabouts. Taking into consideration of traffic congestion during peak-hours and media concern, it is agreed by all depot heads and GM of LWB that we will adopt the suggested safe speed limits validated by BCTS. Attached please find the updated information on safe speed limits.

The only difference are Location no. 16 (On Chuk Street right turn onto Shek Pai Street) and Location no. 19 (New Clear Water Bay Rd. to Shun Lee Tsuen Rd. slip road) where the safe speed limits rounded down from 18 km/h to 15 km/h and from 28 km/h to 25 km/h respectively.

Upon approval, we will proceed the formality for quotations of safe speed limits cards for all BC (including spare copies to be placed in B/T and Duty Dispatch Offices) and prepare Internal Notice to be issued by Traffic Department and LWB. Before full implementation of safe speed limits, we will also prepare briefing note for SSQ Coordinators who will conduct briefings to staff of Duty Dispatch Offices, buddy drivers and part-time BC, inspectors and TS. Inspectors and TS will then conduct quick briefings to all BC during the issuance of safe speed limits cards on the first day of implementation. In addition, we will also update the videos which will be posted on website such that all staff can access the real situation on the identified road sections. We expect that this new practice can come into operation in mid/late April 2015. If agreed, I will then prepare an action plan for the implementation program.

For your approval please.

Gary
HSSQD

From: Owen Eckford OD
Sent: Thursday, February 12, 2015 4:28 PM
To: Gary Wong SSQ
Subject: RE: Safe Speed Limits for the Identified Sharp Bends and Roundabouts

Dear Gary,

I think you know that I have always had a reservation about this approach. It is not the method of calculation or the science behind it but rather the idea of telling professional drivers at what speed to take a curve in the absence of any restrictions or speed limit guidance from the road authorities. I wonder whether these limits will be actually observed by the BC's (we have no effective means of enforcing them) and whether their implementation might be ridiculed by our drivers or the drivers resent this advice in respect of what is a basic driving skill.

I am just not sure whether we should continue with this approach or revert to a simple message of driving with respect to the road conditions and taking bends and curves at safe speed. When I consider that we seem to have had virtually no accidents due to buses taking curves at excessive speeds, other than the incident that gave rise to this project I can think of none, and thus the risk would be considered fairly low and thus the amelioration measures need only be relatively light in nature as well.

I welcome your thoughts.

Kind regards
Owen

From: Gary Wong SSQ
Sent: Thursday, February 12, 2015 6:12 PM
To: Owen Eckford OD
Subject: RE: Safe Speed Limits for the Identified Sharp Bends and Roundabouts

Dear Owen,

According to the past records, there were 3 traffic accidents related to bus toppled over or likely to have toppled over:.

- 1) KMB bus (Rt. 692) - Tseung Kwan O occurred on 9 Nov. 2009 resulting in 2 dead and 34 injured. The BC drove at a speed of 62 km/h where the speed limit was 50 km/h. (toppled-over)
- 2) LWB bus (crew shuttle bus) - Pok Oi Interchange near the slip road to Castle Peak Road (Yuen Long Direction) on 11 March 2011 resulting in the BC sustained bodily injury. The BC drove at a speed of 68 km/h where the speed limit was 50 km/h.(toppled-over)
- 3) KMB bus (deadrun trip) - Hoi Wong Road heading in the direction of Tuen Mun Swimming Pool on 22 May 2014 resulting in the BC sustained bodily injury. The BC drove at a speed of 57-58 km/h where the speed limit was 50 km/h. (near-miss)

Even though the limitation of technologies for effective monitoring of safe speeds through these sharp bends/roundabouts, we still have some measures to draw the attention of BC. In this regard, I would counter-propose 3 follow-up actions:

- 1) Draft internal notice to be issued by Traffic Department in Feb/March 2015 (not specify locations and speed limits) to draw the attention of all BC about "Safety Driving through Sharp Bends and Roundabouts".
- 2) Prepare safety poster for the month of April with the same topic.
- 3) BCTS to quote Tseung Kwan O toppled over incident as a lesson learnt for all new BC trainees.

For your comment please.

Gary
HSSQD

From: Owen Eckford OD
Sent: Thursday, February 12, 2015 6:25 PM
To: Gary Wong SSQ
Subject: RE: Safe Speed Limits for the Identified Sharp Bends and Roundabouts

Dear Gary,

I broadly agree with your suggestion but let's speak briefly tomorrow and finalise a decision.

Kind regards
Owen

From: Gary Wong SSQ
Sent: Thursday, February 12, 2015 6:48 PM
To: Safety & Service Quality Department
Subject: FW: Safe Speed Limits for the Identified Sharp Bends and Roundabouts

FYI

| Name | Position at the material time |
|------------------|--|
| Edmond Ho MD | Managing Director |
| Owen Eckford OD | Operations Director |
| Gary Wong SSQ | Head of Safety and Service Quality Department |
| Jenny Yu SSQ | Administration Officer of Safety and Service Quality Department |
| Aman Fong SSQ | Assistant Manager of Safety and Service Quality Department Note: currently Assistant Manager of Training and Quality Assurance Department |
| Kin Keung Woo TM | General Manager of Tuen Mun Depot |
| Andrew Kwan LCK | General Manager of Lai Chi Kok Depot Note: currently General Manager of Sha Tin Depot |
| Siu Hung Fung ST | General Manager of Sha Tin Depot |
| Kwok Ho Yeung KB | General Manager of Kowloon Bay Depot |
| Siu Wah Ma LWB | General Manager of Long Win Bus |
| Kevin Kwan TM | Operations Officer of Tuen Mun Depot |
| Henry Yeung LCK | Operations Officer of Lai Chi Kok Depot |
| Al Law ST | Operations Officer of Sha Tin Depot |
| Dennis Ng KB | Operations Officer of Kowloon Bay Depot |
| Mike Ho LWB | Operations Officer of Long Win Bus |

KMB
CUSTOMER SERVICE DEPARTMENT
QUALITY INSTRUCTION

CU/QI-03
ISSUE: 8
DATE: 01-01-18
PAGE: 1 of 11




QUALITY INSTRUCTION

FRIENDS OF KMB VOLUNTEER CLUB

A CONTROLLED COPY SHOULD BEAR THE "CONTROLLED" STAMP IN RED AND AN ASSIGNED NUMBER. ONLY THE CONTROLLED COPY IS SUBJECT TO AUTOMATIC UPDATE.

PLEASE REFER ONLY TO THE CONTROLLED COPY.

THIS QUALITY INSTRUCTION IS THE OPERATING DOCUMENT OF THE KOWLOON MOTOR BUS CO. (1933) LTD. ANY UNAUTHORIZED REPRODUCTION OF THIS INSTRUCTION IN FULL OR IN PARTS IS PROHIBITED.

| | | |
|--------------|---|---|
| Prepared by: |  | Daisy Chow Assistant Manager, Customer Service |
| |  | Carrie Kwong LQR, Customer Service Department |
| Approved by: |  | P Y Chan Head of Customer Service Department |

KMB
CUSTOMER SERVICE DEPARTMENT
QUALITY INSTRUCTION

CU/QI-03
ISSUE: 8
DATE: 01-01-18
PAGE : 7 of 11

3. Records

| Record Type | Filing Location | Indexed By | Retention Time | Responsibility |
|---|-----------------------------|-------------------|---|----------------------|
| (1) Minutes of Unit Leaders Monthly Meetings | Customer Service Department | Year & Month | At least 3 years | CSA/CSO or delegates |
| (2) Minutes of Core-Unit Leaders Bi-monthly Meetings | Customer Service Department | Year & Bi-month | At least 3 years | CSA/CSO or delegates |
| (3) Programming | Customer Service Department | Nature and Date | At least 3 years | CSA/CSO or delegates |
| (4) Member's File | Customer Service Department | Membership number | Until member's membership no longer valid | CSA/CSO or delegates |

KMB HEADQUARTERS
COMMUNICATIONS AND PUBLIC AFFAIRS DEPARTMENT
QUALITY INSTRUCTION

CPA/QI-01
ISSUE: 1
DATE: 01-07-17
PAGE: 1 of 8

QUALITY INSTRUCTION

PRINT ADVERTISING IMPLEMENTATION

A CONTROLLED COPY SHOULD BEAR THE "CONTROLLED" STAMP IN RED AND AN ASSIGNED NUMBER. ONLY THE CONTROLLED COPY IS SUBJECT TO AUTOMATIC UPDATE

PLEASE REFER ONLY TO THE CONTROLLED COPY.

THIS QUALITY INSTRUCTION IS THE OPERATING DOCUMENT OF THE KOWLOON MOTOR BUS CO. (1933) LTD. ANY UNAUTHORIZED REPRODUCTION OF THIS INSTRUCTION IN FULL OR IN PARTS IS PROHIBITED

PREPARED BY :


BETSY LEUNG
(ASSISTANT MANAGER)

APPROVED BY :


EMILY HUI
HEAD OF COMMUNICATIONS AND
PUBLIC AFFAIRS DEPARTMENT



KMB HEADQUARTERS
 COMMUNICATIONS AND PUBLIC AFFAIRS DEPARTMENT
 QUALITY INSTRUCTION

CPA/QI-01
 ISSUE: 1
 DATE: 01-07-17
 PAGE : 6 of 8

5. Records

| Record Type | Filing Location | Indexed by | Retention Time | Responsibility |
|--|--|------------|----------------|----------------|
| 1. Artwork Design for print advertising | Communications and Public Affairs Department | Subject | 1 year | AM or delegate |
| 2. Colour Proof for print advertising | Communications and Public Affairs Department | Subject | 1 year | AM or delegate |
| 3. Quotation/ Media Plan for print advertising | Communications and Public Affairs Department | Subject | 3 years | AM or delegate |
| 4. Copy of Print Advertising | Communications and Public Affairs Department | Subject | 3 years | AM or delegate |

Backup Tape Retention Policy

1. LAN Server in **Kowloon Bay Data Centre**

| (Note 1) Responsible Party | Server Name / Project ID | Tape Label | Frequency | Type of tape | (Note 2) Retention Period | (Note 3) Operator | (Note 4) | | | | Remarks |
|----------------------------------|-----------------------------|--|-----------|-----------------|---------------------------------|----------------------|----------------------------|-----|-----------------------------------|-----|--|
| | | | | | | | No. of current versions | | No. of non current versions | | |
| | | | | | | | KB | LCK | KB | LCK | |
| TSD | W2K server | NBU for File Service, W2K, Sybase, Mail, DMS & SQL (01 – 30) * | Daily | LTO6 | 1 month | OPD | 0 | 1 | 29 | 0 | Requirements from TSD : 1. LAN Server in Headquarters - Effective from 1 January 2015, daily backup to tape for NBU for File Service, W2K, Sybase, Mail, DMS & SQL will be done on every day - Effective from 1 January 2015, monthly backup to tape for NBU for File Service, W2K, Sybase, Mail, DMS & SQL will be done on last day of each month. 2. LAN Server in remote sites - For KMB depots, backup will be done on working weekdays (i.e. Monday to Friday) |
| | | NBU for File Service, W2K, Sybase, Mail, DMS & SQL MMCCYY | Monthly | LTO6 | 2 years | OPD | 0 | 1 | 0 | ALL | |
| | File server | NBU for File Service, W2K, Sybase, Mail, DMS & SQL (01 – 30) * | Daily | LTO6 | 1 month | OPD | 0 | 1 | 29 | 0 | |
| | | NBU for File Service, W2K, Sybase, Mail, DMS & SQL MMCCYY | Monthly | LTO6 | 2 years | OPD | 0 | 1 | 0 | ALL | |
| | DMS Server | NBU for File Service, W2K, Sybase, Mail, DMS & SQL (01 – 30) * | Daily | LTO6 | 1 month | OPD | 0 | 1 | 29 | 0 | |
| | | NBU for File Service, W2K, Sybase, Mail, DMS & SQL MMCCYY | Monthly | LTO6 | 2 years | OPD | 0 | 1 | 0 | ALL | |

Backup Tape Retention Policy

1. LAN Server in **Kowloon Bay Data Centre** (cont.)

| (Note 1) Responsible Party | Server Name / Project ID | Tape Label | Frequency | Type of tape | (Note 2) Retention Period | (Note 3) Operator | (Note 4) | | | | Remarks |
|--------------------------------------|-----------------------------|--|-----------|-----------------|-------------------------------------|--------------------------|----------------------------|-----|-----------------------------------|-----|--|
| | | | | | | | No. of current versions | | No. of non current versions | | |
| | | | | | | | KB | LCK | KB | LCK | |
| TSD | Exchange Server | NBU for File Service, W2K, Sybase, Mail, DMS & SQL (01 – 30) * | Daily | LTO6 | 1 month | OPD | 0 | 1 | 29 | 0 | 3. Project backup - For projects (BMS, CPS, EPM, IAS, IMS, MPF, PAY, PMS, VRS) backup will be done upon user request before closing. DB will be copied to Tempdb_sb00na\$(\\nt007jsyb) or Tempdb_sb00nb\$(\\nt007ksyb) by W2K backup program "NTBackup", then by “COPY” command to copy the DB to the folder in HQs NAS. - For project (RCS) backup will be done upon user request before closing. DB will be copied to \\nt00nhsb\d\$temp_db by TSD then by “COPY” command to copy the DB to the folder in KB NAS. - For contingency, DB will be copied to ST NAS. The total number of files in two NAS disks with Raid image in KB Data Centre and ST Backup Centre are the same - Copy the requested DB from KB NAS to development or testing server upon request from project team. Direct access to the backup is restricted. |
| | | NBU for File Service, W2K, Sybase, Mail, DMS & SQL MMCCYY | Monthly | LTO6 | 2 years | OPD | 0 | 1 | 0 | ALL | |
| | SYBASE Server | NBU for File Service, W2K, Sybase, Mail, DMS & QL (01 – 30) * | Daily | LTO6 | 1 month | OPD | 0 | 1 | 29 | 0 | |
| | | NBU for File Service, W2K, Sybase, Mail, DMS & SQL MMCCYY | Monthly | LTO6 | 2 years | OPD | 0 | 1 | 0 | ALL | |

Backup Tape Retention Policy

- Note:
1. Responsible party needs to follow all problems and make amendments via Helpdesk call. He/ She has the right to specify the tape location, retention period and number of tape versions required.
 2. By default, retention period is two years for all monthly backup, tapes will be reused after retention period.
 3. Operator is dedicated to mount tape or run job only according to the instruction given by responsible party.
 4. Backup tapes can be stored either in **KB Data Centre** or **LCK OPD Store Room**.
Monthly backup tapes will be sent to **LCK OPD Store Room** after job completion. For contingency, current version of tape label marked with * will be sent to **LCK OPD Store Room usually on Tuesday and Thursday and non-current version will be collected back to KB Data Centre**.
For CSC, FMS & HRMS, tapes will be collected back to **KB Data Centre** according to the instructions stated in <http://nt00pwww\servercab>.
 5. For confidential purpose or special request, backup tapes such as IAS are kept by user.

Practice on Email Retention

| Type of Email | Retention Period | Retention Location |
|--|--|--|
| Emails on Microsoft Outlook for current staff, provided that the emails are not deleted by the staff | No time limit | Server subject to standard backup cycle |
| Emails on Microsoft Outlook for former staff, provided that the emails are not deleted by the staff | 2 years from the last backup after his/her last day in office. Those emails cannot be restored upon expiry of 2 years as the backup tape will be recycled every 2 years. | Off-site storage location (i.e. LCK Depot) |
| Archived emails, if any, for both current and former staff (Note 1) | Permanent as long as the PST file in the hard disk has not been erased | Local computer (Note 2) |

Note 1:

It is optional for users to decide whether to archive emails to their hard disk. When users decide to perform email archiving (based on email aging, obsolete projects, etc.), the system will generate a PST file in the hard disk storing the archived emails.

Note 2:

If the computer hard disk of a former staff has not been erased, theoretically it is possible to retrieve their archived emails.

From: Terry Lo TR
Sent: Saturday, July 13, 2013 1:44 PM
To: Susanna Wong HR; Wendy Siu TR; Catherine Yip IT; Kin Keung Woo TM; Siu Hung Fung ST; Andrew Kwan LCK; Kwok Ho Yeung KB; Jeff Poon LWB; Virginia Lam PUR; Winnie SF Ho CFM; Chun Kin Chan SER
Cc: Kenrick Fok OD; Chi Man Ho HD; Siu Wah Ma LWB; Jacky Cheng CDD; Alice Wong ODO; Eric Lee PUR; Ivan Au PUR; Kelvin Yeung PUR; Thomas Tong CFM
Subject: RE: Real-time Operations Management System - Task Force kick-off meeting on 12 July 2013

Dear all,

The kick-off meeting in yesterday's morning is referred.

Please be reminded that the system was agreed to be named as "Real-time Operations Management System(ROM)". Should you have further input to the attached work plan, please let me know by 16 July 2013. The revised work plan will then send to you for follow-up. Thanks.

Regards,
Terry LO
Assistant Manager, Operations Project
Traffic Department
Tel : [REDACTED]

1. Real-time Operations Management System software and in-bus console development

| |
|--|
| Objectives |
| Ensure the software fits users' requirement and smoothen operations |
| Targets |
| Complete software development and installation by July 2014 ready for pilot launch at LCKD |
| Dependencies |

| |
|---|
| Taskforce |
| Catherine Yip, Senior Manager, ITD (Lead) |
| Chan Chun Kin, Senior Engineer, Engineering Office |
| Virginia Lam, Assistant Manager, Purchasing |
| Jeff Poon, Assistant Manager, Traffic Operations, LWB |
| Terry Lo, Assistant Manager, Operations Projects, Traffic |

| Level | Activity | Owner | Status | Start date | Revised start date | End date | Revised end date | Remark |
|-------|---------------------------|---------------|-------------|------------|--------------------|-----------|------------------|--|
| 1.1 | Fleet management software | Catherine Yip | On track | 29-Apr-13 | | 17-May-13 | | |
| | | | Not started | 20-May-13 | | 22-May-13 | | Changed to build KMB's own software with the help of software developers |
| | | | Not started | 15-Jul-13 | | 16-Aug-13 | | |
| | | | Not started | 02-Sep-13 | | 30-Sep-13 | | |
| | | | Not started | 16-Sep-13 | | 18-Oct-13 | | |
| | | | Not started | 01-Aug-13 | | 30-Sep-13 | | |
| | | | Not started | 21-Oct-13 | | 21-Nov-13 | | |
| | | | Not started | 02-Apr-14 | | 31-Jul-14 | | |
| 1.2 | Bus cabin set up | Jeff Poon | Not started | 01-Aug-13 | | 16-Aug-13 | | |
| | | Catherine Yip | Not started | 02-Sep-13 | | 30-Sep-13 | | |
| | | CK Chan | Not started | 01-Sep-13 | | 19-Sep-13 | | |
| | | CK Chan | Not started | 22-Sep-13 | | 03-Oct-13 | | |
| | | Catherine Yip | Not started | 15-Jul-13 | | 16-Aug-13 | | |
| | | Catherine Yip | Not started | 02-Sep-13 | | 30-Sep-13 | | |
| | | Catherine Yip | Not started | 16-Sep-13 | | 18-Oct-13 | | |

| | | | | | | | | |
|--|---|---------------|-------------|-----------|--|-----------|--|--|
| | Develop detailed specification for console customization and other development needed (e.g., interfacing with the software and existing KMB applications) | Jeff Poon | Not started | 01-Aug-13 | | 30-Sep-13 | | |
| | Coordinate software customization and interfacing with software and existing KMB applications | Catherine Yip | Not started | 21-Oct-13 | | 21-Nov-13 | | |
| | Coordinate system testing and UAT with relevant users | Jeff Poon | Not started | 02-Apr-14 | | 31-Jul-13 | | |
| | Retrofit | Jeff Poon | Not started | TBD | | TBD | | |

2. Data preparation for software

| |
|---|
| Objectives |
| Ensure the software would have updated input to reflect frequent change in operations |
| Targets |
| Have ready information before customization of software starts |
| Dependencies |
| |

| |
|---|
| Taskforce |
| Wendy Siu, Head of Traffic (Lead) Catherine Yip, Senior Manager, ITD |

| | Lower | Activity | Owner | Status | Start date | Revised start date | End date | Revised end date | Remark |
|-----|----------------------------------|--|-----------|-------------|------------|--------------------|-----------|------------------|--------|
| 2.1 | Data for fleet management system | Conduct one-off exercise to gather GPS location of all en-route bus stops / termini and routes | Wendy Siu | On track | 01-Jun-13 | | 31-Jan-14 | | |
| | | Establish process to update GPS location of en-route bus stops / termini and routes in case of bus stop / termini move / addition / removal or route change / addition / removal | | Not started | 03-Feb-14 | | 28-Feb-14 | | |

3. Operating practice and organization change codification

| |
|---|
| Objectives |
| Determine how the future operation is run and ensure the software has the right and aligned input |
| Targets |
| Ensure the input for software is timely and the software could perform what the practice demands |
| Dependencies |
| |

| |
|---|
| Taskforce |
| Ho Chi Man, Head of Depots (Lead) Fung Siu Hung, General Manager, STD Andrew Kwan, Senior Manager, LCKD Woo Kin Keung, General Manager, TMD Susanna Wong, Head of HRD Catherine Yip, Senior Manager, ITD Jeff Poon, Assistant Manager, Transport Operations, LWB Alice Wong, Assistant Manager, Projects, ODO Terry Lo, Assistant Manager, Operations Projects, Traffic |

| | Lever | Activity | Owner | Status | Start date | Revised start date | End date | Revised end date | Remark |
|-----|---|--|--|-------------|------------|--------------------|-----------|------------------|--------|
| 3.1 | Operating practices | Identify a group of high performing terminus supervisors, inspectors and OO to codify rule-based operating practices in bus bunching, departure management, incident management, etc. (based on high-level process map already developed as part of Telematics design) | Fung Siu Hung | Not started | 12-Jul-13 | | 16-Jul-13 | | |
| | | Provide input to IT to ensure detailed specification for tendering caters for all possible scenarios in operating practices | Fung Siu Hung and Catherine Yip | Not started | 19-Jul-13 | | 15-Oct-13 | | |
| | | Develop high level operating procedures on rule-based operating practices in bus bunching, departure management, incident management, etc. (to be refined later as and when fleet management software prototype is ready) | Fung Siu Hung | Not started | 19-Jul-13 | | 20-Aug-13 | | |
| | | Work with selected software vendor (expected by end of Aug) on detailed design | Fung Siu Hung and Catherine Yip | Not started | 02-Sep-13 | | 04-Oct-13 | | |
| | | Work with vendor on system and user interface, developing, testing and refining the prototype | Fung Siu Hung and Catherine Yip | Not started | 07-Oct-13 | | 27-Jun-14 | | |
| | | Develop and refine the operating manual with reference to the interface design and the feedback from pilot result | Fung Siu Hung | Not started | 01-Dec-13 | | 05-Sep-14 | | |
| | | | | | | | | | |
| 3.2 | Organization and roles & responsibilities | Define roles and responsibilities for different operation execution staff in both transition period and in end state (including senior controller, controller, inspectors, bus stop assistants, terminus supervisors - only in interim state) | Andrew Kwan, Susanna Wong and Alice Wong | Not started | 21-Aug-13 | | 25-Aug-13 | | |
| | | Define high level transition plan to evolve to future organization, lay out different options with cost & benefit analysis | | Not started | 21-Aug-13 | | 25-Aug-13 | | |
| | | Seek management approval on recommended option for transition | | Not started | 28-Aug-13 | | 01-Sep-13 | | |
| | | Define hierarchies and span of control of different operation execution staff | | Not started | 28-Aug-13 | | 01-Sep-13 | | |
| | | Determine number of staff required for different positions | | Not started | 04-Sep-13 | | 15-Sep-13 | | |
| | | Define detailed capability & qualification requirements for senior controllers and controllers | | Not started | 07-Sep-13 | | 18-Sep-13 | | |
| | | Define compensation structure of senior controllers and controllers | | Not started | 21-Sep-13 | | 09-Oct-13 | | |

| | | | | | | | | | |
|-----|------------------------|---|--------------------------------|-------------|-----------|--|-----------|--|--|
| | | Develop recruitment strategy and plan to recruit for new positions (internal and/or external) | | Not started | 12-Oct-13 | | 30-Oct-13 | | |
| | | Launch recruitment to identify and obtain the qualified people (both existing employee or potential employee) | | Not started | 23-Dec-13 | | 28-Mar-14 | | |
| | | Execute the transition plan | | Not started | 23-Dec-13 | | 28-Mar-14 | | |
| | | Refine the organization and roles and responsibilities with the feedback from pilot result | | Not started | 01-Sep-14 | | 02-Oct-14 | | |
| 3.3 | Training & development | Identify a group of experienced trainers in terminus supervisors and inspectors to co-develop training materials with the operating practice sub-task force | Woo Kin Keung and Susanna Wong | Not started | 11-Nov-13 | | 15-Nov-13 | | |
| | | Co-develop the operating manual with the operating practice sub-task force | | Not started | 01-Dec-13 | | 31-Dec-13 | | |
| | | Develop the training material based on the operating manual | | Not started | 02-Jan-14 | | 27-Jan-14 | | |
| | | Test and refine the training material with focus groups of experienced terminus supervisors and inspectors | | Not started | 30-Jan-14 | | 24-Feb-14 | | |
| | | Train controllers and inspectors for the pilot | | Not started | 31-Mar-14 | | 20-May-14 | | |
| | | Refine the training with the feedback from pilot result | | Not started | 01-Dec-13 | | 05-Sep-14 | | |
| | | Train controllers and inspectors for all LCKD | | Not started | 01-Sep-14 | | 26-Sep-14 | | |
| | | Train controllers and inspectors for KBD, STD, TMD | | Not started | TBD | | TBD | | |

4. Pre-pilot and pilot preparation & launch

| |
|---|
| Objectives |
| Ensure LCKD pilot is set up on time with smooth operation |
| Targets |
| Pilot launch at LCKD by Jul 2014 |
| Dependencies |
| |

| |
|---|
| Taskforce |
| Andrew Kwan, Senior Manager, LCKD (Lead) |
| Woo Kin Keung, General Manager, TMD |
| Susanna Wong, Head of HRD |
| Catherine Yip, Senior Manager, ITD |
| Winnie Ho, Assistant Manager, Administration, CFMD |
| Virginia Lam, Assistant Manager, Purchasing |
| Alice Wong, Assistant Manager, Projects, ODO |
| Terry Lo, Assistant Manager, Operations Projects, Traffic |

| Lever | Activity | Owner | Status | Start date | Revised start date | End date | Revised end date | Remark |
|-------|--|---------------------------------|-------------|------------|--------------------|-----------|------------------|--------|
| 4.1 | Pre-pilot - TMD | Woo Kin Keung and Catherine Yip | Not started | 01-Jan-14 | | 14-Jan-14 | | |
| | | | Not started | 31-Jan-14 | | 01-Mar-14 | | |
| | | | Not started | 02-Mar-14 | | 31-Mar-14 | | |
| 4.2 | Control center setup - LCKD pilot design | Andrew Kwan | Not started | 29-Jul-13 | | 12-Aug-13 | | |
| | | | Not started | 15-Aug-13 | | 30-Sep-13 | | |
| | | | Not started | 01-Oct-13 | | 31-Dec-13 | | |
| | | | Not started | 01-Mar-14 | | 31-Mar-14 | | |
| | | | Not started | 15-Apr-14 | | 30-Apr-14 | | |
| 4.3 | Candidate identification & training - LCKD pilot | Andrew Kwan | Not started | 07-Oct-13 | | 18-Oct-13 | | |
| | | | Not started | 21-Oct-13 | | 31-Jan-14 | | |
| | | Woo Kin Keung and Susanna Wong | Not started | 31-Mar-14 | | 20-May-14 | | |
| | | | Not started | 31-Mar-14 | | 20-May-14 | | |
| 4.4 | Pilot launch | Andrew Kwan | Not started | 01-Jul-14 | | 31-Aug-14 | | |
| | | | Not started | 04-Aug-14 | | 05-Sep-14 | | |
| 4.5 | LCKD full scale roll-out | Andrew Kwan | Not started | 29-Jul-13 | | 12-Aug-13 | | |
| | | | Not started | 15-Aug-13 | | 19-Aug-13 | | |
| | | | Not started | 22-Aug-13 | | 26-Aug-13 | | |

| | | | | | | | |
|--|---|-------------|-----------|--|-----------|--|--|
| | Seek management approval on control center set up at selected locations | Not started | 29-Aug-13 | | 02-Sep-13 | | |
| | Apply for license, if needed, for location(s) selected for control center set up | Not started | 29-Aug-13 | | 28-Sep-13 | | |
| | Finalize locations for control center set up based on status of license application | Not started | TBD | | TBD | | |
| | Develop the detailed design plan of full roll out control center | Not started | TBD | | TBD | | |
| | Tender and determine the contractor | Not started | TBD | | TBD | | |
| | Renovate the full roll out control center | Not started | TBD | | TBD | | |
| | Install the hardware and software for full roll out control center | Not started | TBD | | TBD | | |
| | Refine the physical setup for other depots with the feedback from pilot result | Not started | TBD | | TBD | | |

The Kowloon Motor Bus Company (1933) Limited

System Specifications
for
Real-time Operations Management System (ROM)

V1.10

KMB reserves the copyright of this Specifications document. No part of this document may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, photocopying, recording or otherwise. KMB will not hesitate to take all necessary actions to restrain infringement on its copyright and to recover all losses, damage and costs as a result of such infringement.

Real-time Operations Management System (ROM) System Specifications

Table of Contents

| | | |
|------------------------|--|-----------|
| Part I | Definitions, Acronyms and Abbreviations | 3 |
| Part II | Introduction and Scope of Work..... | 4 |
| 1. | Introduction..... | 4 |
| 2. | Scope of Work | 5 |
| Part III | Functional Requirements | 6 |
| 1. | Operations Control Centre System (OCS)..... | 6 |
| 2. | Driver Communication System (DCS)..... | 10 |
| Part IV | External Interface Requirements | 12 |
| Part V | System Hardware & Software Requirements | 14 |
| 1. | System Hardware (Driver Console)..... | 14 |
| 2. | System Hardware (ROM Backend Systems)..... | 16 |
| 3. | System Software | 16 |
| Part VI | System Quality Requirements | 17 |
| 1. | Quality | 17 |
| 2. | Security | 17 |
| 3. | Testing Requirements | 17 |
| 4. | Engineering Prototype Tests | 18 |
| 5. | Production Prototypes and Environmental Tests..... | 18 |
| 6. | Electromagnetic Compatibility Plan & Tests | 19 |
| 7. | Production Tests | 20 |
| Part VII | Performance and Reliability Requirements | 21 |
| 1. | ROM (OCS)..... | 21 |
| 2. | ROM (DCS)..... | 21 |
| Part VIII | Maintenance & Supporting Tools Requirements | 23 |
| Part IX | Documentation and Training Requirements..... | 24 |
| 1. | Documentation..... | 24 |
| 2. | Technology Transfer Training..... | 26 |
| 3. | User Training | 27 |
| Part X | Implementation Plan and Major Milestones..... | 28 |
| 1. | Introduction..... | 28 |
| 2. | Pilot Runs..... | 28 |
| 3. | Evaluation | 29 |
| 4. | Full Production Implementation | 29 |
| 5. | Milestone Dates | 31 |
| Appendices..... | | 32 |
| Appendix A | Estimated Data Volume and DCS Loading | 33 |
| Appendix B | Possible Bus Service Restoration Options..... | 34 |
| Appendix C | Number of Concurrent Users at Different Locations | 35 |
| Appendix D | Driver Console Requirements Summary | 36 |
| Appendix E | Driver Console Pictorial Description..... | 38 |
| Appendix F | Driver Console Dimension Sketch | 40 |

Part I Definitions, Acronyms and Abbreviations

Part I Definitions, Acronyms and Abbreviations

| | |
|-------------------|---|
| B/T | Bus terminus |
| BOM | On-board Bus Monitoring System, KMB's inhouse system |
| DBMS | Database Management System |
| DCS | Driver Communication System, a module of ROM |
| ETA | Estimated arrival time of buses |
| GPS | Global Positioning System |
| Headway | Time interval between the buses on a route |
| Mid-way departure | Buses departing from mid-way bus stop |
| OBD | On-board Telematics Device |
| OCS | Operations Control Centre System, a module of ROM |
| ROM | Real-time Operations Management System |
| Shortworking | Buses departing from B/T and then to mid-way bus stop to pick up passengers |
| TTS | Text-to-speech system |
| VoIP | Voice over Internet Protocol |

Part II Introduction and Scope of Work

Part II Introduction and Scope of Work

1. Introduction

- 1.1 Each KMB bus will be equipped with an on-board telematics device (OBD) which captures data (GPS, engineering and driving information) about the bus at a one-second interval. The data will be sent to KMB backend data server every 30 seconds via 3G mobile network. The collected data will be processed by KMB's On-board Bus Monitoring System (BOM) to generate estimated arrival time of buses.
- 1.2 The ROM comprises of two modules:
 - 1.2.1 Operations Control Centre System (OCS) - a backend system
 - 1.2.2 Driver Communication System (DCS) - a two-way communication system with driver console installed on bus
- 1.3 The OCS communicates with the DCS through the 3G network of the OBD. In addition, each bus's real-time positioning data, bus estimated arrival time, bus information and driver information etc. that are required to provide the functions specified in the functional requirements section will be provided by the KMB Enterprise Data Server.
- 1.4 The main functions of ROM are to assist Dispatchers from Operations Control Centres and Terminus Supervisors from Bus Termini to:
 - 1.4.1 Manage bus departures and bus trips
 - 1.4.2 Handle special situations that cause disruptions to bus services
 - 1.4.3 Communicate with drivers, via voice, text and sound recordings for any information or special messages that needs driver's attention and action
- 1.5 The main system objectives are to control and monitor bus services, streamline workflow and improve operational efficiency so as to provide the best bus services to the public even in unexpected resources shortage or special situations that will cause bus disruption.

Part II Introduction and Scope of Work

2. Scope of Work

- 2.1 The Contractor shall design, manufacture (see 2.2), develop, supply, deliver, install, test and commission ROM, providing hardware, software, system integration, documentation and services as described in this tender document within an expected time frame of around 26 months:
 - 2.1.1 With a high degree of skill, care and diligence normally exercised by recognized professional firms or by highly skilled experienced service providers with sufficient resources including project management resources.
 - 2.1.2 In conformance to all respects with this specifications and so that they fulfill the purpose indicated by or to be reasonably inferred from the specification; and
 - 2.1.3 In a safe manner and free from any unreasonable or avoidance risk to any person's health and well-being and in an economic and efficient manner.
 - 2.1.4 Provide warranty and maintenance services and rectify defects of ROM as specified in this document.
 - 2.1.5 Liaise with equipment suppliers to resolve all integration problems.
 - 2.1.6 Submit software source code, design documentations, installation plan and drawings, test specifications and reports, operations manuals, drawings and other documentations that are developed in this contract, except those proprietary systems or modules specified in the Contractor's System Proposal.
- 2.2 The Contractor can propose an off-the-shelf driver console as long as it fulfills requirements as specified in this document.

Part III Functional Requirements

Part III Functional Requirements

1. Operations Control Centre System (OCS)

1.1 An electronic map shall form part of the OCS and the following functions shall be provided:

- 1.1.1 Zoom-in function down to 1:2000. Direct map access by users are required (ie no internet access is required).
- 1.1.2 Display to show real-time location of buses using different colors and/or codes to show that buses need dispatcher's attention. Typical display criteria: show all buses, by depot, by zone, by terminus, by route, by dispatcher's access routes, only show buses that need dispatcher's attention.
- 1.1.3 Allow authorized users to add and edit bus stops, road junctions and tunnels that do not allow buses to pass through, speed limit, turning restriction etc. on the map using a user-friendly tool.
- 1.1.4 Allow dispatcher to draw a certain area on the map so that buses within the boundary of the drawn area are:
 - a. Highlighted for sending text and voice messages
 - b. Used for speed calculation so that the average speed of highlighted area are displayed
- 1.1.5 Alert the dispatcher if the bus is off its normal routing .
- 1.1.6 Alert the dispatcher for possible bus theft case when the bus is moving while it is supposed to be parked especially at night time .
- 1.1.7 Allow printing a certain area of the map for KMB's internal distribution to outdoor staff.
- 1.1.8 Export map data to other KMB map-based systems.
- 1.1.9 Import map data from other KMB map-based systems.
- 1.1.10 An update of base map on a half-yearly basis or on an as-needed basis.

1.2 Core System Functions

1.2.1 Operations Management

a. Bus trip management

- (1) Handle routes of different nature including routes with special departures, circular routes and routes jointly operated with other bus operators.
- (2) Handle frequent and non-frequent bus departures. Definition of frequency is parameter driven. Initially frequent bus departures are set as headway of twelve minutes or below.
- (3) In bus trip management, frequent bus departures are measured by headway deviation while non-frequent bus departures are measured by schedule adherence.
- (4) Calculate and spot out possible service irregularity based on (3) above. Estimate the seriousness of service abnormality in terms of the extent of service gap, length of service irregularity, number of passengers affected, effect on lost trips etc.
- (5) Provide one or several service restoration options to regulate departures with prioritization and pre-defined criteria based on schedule adherence, headway adherence, carrying capacity, demand level etc. Information such as potential service gap, estimated time of arrival (ETA) of buses (ETA is provided by KMB Interface Data

Part III Functional Requirements

- Server), available resources at nearby locations, benefits and shortcomings etc. shall also be provided.
- (6) The service restoration options which should include but not limited to the following:
 - i. even out departure at bus terminus
 - ii. midway departure
 - iii. additional departure
 - iv. diversion
 - v. line split (split a routing into two service lines)
 - vi. shortworking or service curtailment
 - vii. deadrun (i.e. not carrying any passengers) to opposite terminating point
 - viii. bus swap

Refer to Appendix B for possible restoration options
 - (7) Regulation of bus departures are done automatically based on a set of rules with elements of the rules configurable. The configurable items should include but not limited to the followings:
 - i. route and service type
 - ii. demand flow and pattern at different periods
 - iii. carrying capacity as a result of headway adjustment
 - iv. driver working guidelines
 - v. availability of buses

If rules cannot be applied, the regulation of bus departures are performed manually by dispatchers.
- b. Handle planned special situations that will cause service disruption to more than one individual trip:
 - (1) Allow dispatcher to input the planned situation with effective date and time. Historical planned situation shall be available to avoid re-input by the dispatcher.
 - (2) Allow dispatcher to input restoration measures based on historical record or newly simulated decision support information.
 - c. Handle unplanned special situations that will cause service disruption to more than one individual trip:
 - (1) Allow dispatcher to select the unplanned situation from historical special situation. If there is no similar historical situation, allow the dispatcher to input the unplanned situation.
 - (2) Allow dispatcher to input restoration measures based on historical record of planned or newly simulated service irregularity analysis and restoration recommendations.
 - (3) All unplanned special situations and restoration measure shall be stored as historical record for use in future.
 - d. Handle unplanned special situations that will cause service disruption to only one individual trip:
 - (1) Examples of such situations are accidents, bus breakdown, driver's sickness etc.
 - (2) Allow dispatcher to input service restoration measure based on the dispatcher's decision or the system's simulated service irregularity analysis and restoration.

Part III Functional Requirements

- e. Manage Emergency situation
 - (1) Emergency triggered by driver via pressing an emergency button of the driver console.
 - i. OCS will trigger voice communication and recording of voice will be in effect.
 - ii. OCS will start playing CCTV video captured live from the OBD (provisional requirement).
 - (2) Emergency or incident triggered by the dispatcher
 - i. Allow the dispatcher to trigger voice communication.
 - ii. Allow the dispatcher to trigger recording of voice.
 - iii. Allow the dispatcher to trigger playing of CCTV video captured live from the OBD (provisional requirement).
 - iv. Allow the dispatcher to send photos or documents (photo, map, word etc.) to the driver console of the bus.

1.2.2 Bus monitoring functions

- a. Display buses running on a line chart to show where buses are along a route. Information on headway, ETA, occupancy and current journey time, etc. are shown on the line chart. Different color or code of buses is used to show that the bus needs dispatcher's attention. Typical display criteria: show all buses by depot, by zone, by bus terminus, by route, by dispatcher's access routes, only show buses that needs dispatcher's attention.
- b. Display buses in termini to show how many and where buses are (and their next departure time), and available drivers at each terminus and ETA of next several buses arriving at each of the terminus. Buses are colored differently highlighting where intervention from dispatcher is needed. Typical display criteria: show all termini by depot, by zone, by bus terminus, by route, by dispatcher's access routes, only show termini that needs dispatcher's attention.
- c. Display buses that need dispatcher's attention on a screen in order of importance score which is calculated by rules described in (1) below. Typical display criteria: by all routes, by all routes within a depot, by all routes within a zone, by all routes within a bus terminus, by dispatcher group's access routes, by individual dispatcher's access right.
 - (1) Rules that needs dispatcher's attention:
 - i. Bus is entering a restricted area
 - ii. Bus is not running according to schedule
 - iii. Bus frequency exceed a threshold limit
 - iv. Driver has pressed an emergency/incident button on the driver console
 - v. Bus is moving off its normal routing
 - vi. Bus is suspected of being moved by an unauthorized person
 - vii. Driver working guideline is violated
 - viii. Driver without required training
 - (2) Remove the line of display when the abnormal situation is being handled by the dispatcher.
- d. Allow the responsible dispatcher to handle the display mentioned above according to the dispatcher's access right.

1.2.3 Logging of events provided by outdoor staff

- a. Allow the dispatcher to input text messages for information provided by outdoor staff via phone.

Part III Functional Requirements

- b. Allow the dispatcher to handle photos sent by outdoor staff via smart phones or portable devices.

1.2.4 Communication function

- a. Communicate with the public
 - (1) Send text messages to the public (via sending the text to KMB Interface Data Server).
 - (2) Send voice announcement to passengers at selected bus termini (provisional requirement).
- b. Communicate with drivers
 - (1) Provide instruction to drivers by voice via TTS, text and graphics via the driver console. The instructions can be sent to an individual driver, to all drivers (capable of sending to 4000 drivers), or to group of drivers (by route, zone, etc).
 - (2) Provide headway information to the drivers.
 - (3) Able to handle functions as specified in Part III item 2 (Driver Communication System) stated below.
 - (4) Call driver's mobile phone directly through OCS (optional)
 - (5) Send email to drivers

1.2.5 Reporting functions

- a. Provide operational reports and enquiries for dispatchers in performing their duties with the objective of enabling the dispatchers to manage by exceptions and the exceptional status shall be determined by reference to adjustable parameters.
- b. Provide statistical reports and enquiries for dispatchers and managers to make decisions with regard to bus trips and staff monitoring etc.

1.2.6 Administration and audit trail

- a. Functions to add and edit access right of dispatchers according to each individual function of the system, and data access right (depot, route, route group, zone, dispatcher group) of dispatchers.
- b. All activities performed by the dispatcher will be logged and reported.

1.3 Voice System

1.3.1 Communicate with driver. All voice communication between the dispatcher and the driver will be recorded.

- a. Allow the dispatchers to speak directly with a driver by 2-way voice communication via VoIP (around 2 minutes per conversation). When voice communication is in effect, there shall be no interruption to the normal uploading or downloading of other text messages or data.
- b. The recorded voice data can be retrieved by date and time, bus registration number, route number or employee number of the driver or the dispatcher.
- c. The retention period of the recorded voice data is one month. After that, the data will be placed in an off-line system for retrieval for two years.

Part III Functional Requirements

- 1.3.2 Able to handle recorded audio file (less than 1 minute's voice) from the driver.
- 1.3.3 All voice messages sent from dispatchers to the driver console will be handled by TTS in Cantonese. The messages can be sent to an individual driver, to all drivers (capable of sending to 4000 buses), or to group of drivers (by route, zone, etc.).
- 1.3.4 Able to send pre-set messages (1 to 99) to driver console. The messages will be mapped to voice messages (not over 3 minutes' voice) stored at the driver console.

2. Driver Communication System (DCS)

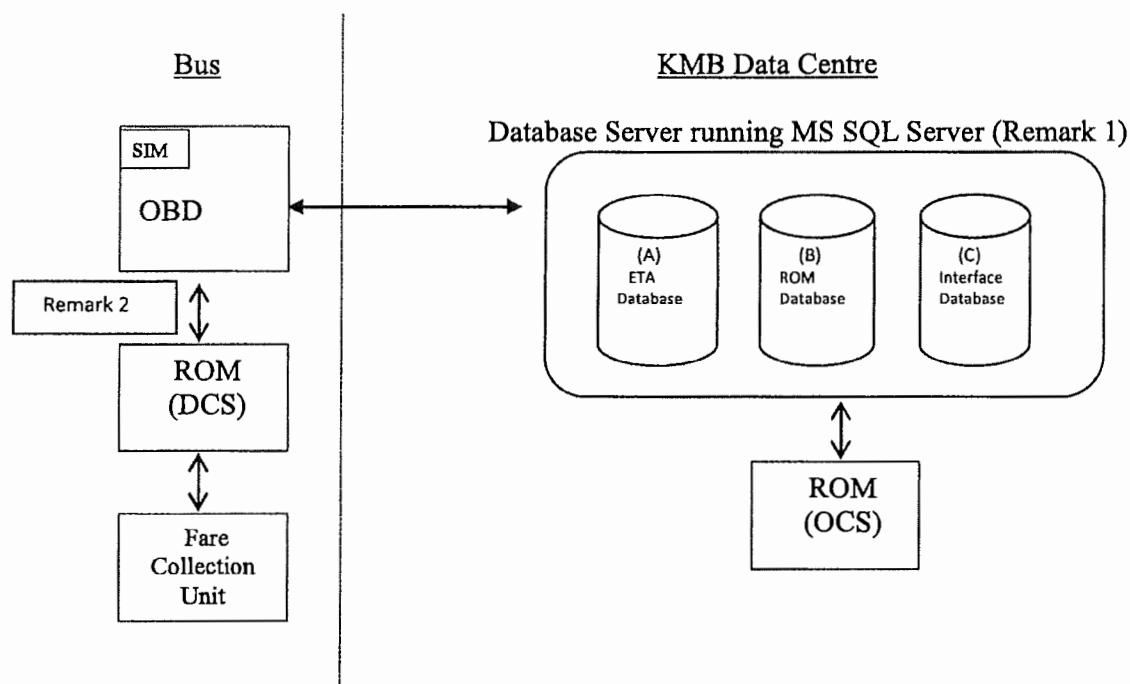
- 2.1 A driver console will be installed on each bus. The driver console will provide the following functions:
 - 2.1.1 Display color graphics and text data
 - a. Dynamic text messages can only be displayed when the bus is stationary where the stationary information is provided by the on-board device (OBD). A global parameter shall be provided to activate or deactivate 'stationary'. That is, the messages can be displayed when the bus is moving (ie deactivate 'stationary').
 - b. Display messages and graphics sent by the dispatcher or automatically sent from the OCS under certain conditions such as when the bus is located at a certain bus stop.
 - c. Display real-time indicators showing driving behavior of the driver with information available from the OBD. For abnormal driving behavior, different beep sounds shall be prompted to the driver. A global parameter shall be provided to activate or deactivate this function.
 - 2.1.2 Voice communication
 - a. TTS messages sent from the OCS will be received by DCS as voice.
 - b. Voice recording is available and can be sent to the OCS.
 - c. Request to talk function can be triggered to initiate a two-way voice communication with the dispatcher.
 - d. Broadcast TTS voice messages sent from the OCS under certain conditions such as when the bus is located a certain bus stop.
 - e. Provide pre-saved voice messages (99 messages of 1 minute for each message)
 - 2.1.3 Other functions
 - a. All messages sent by the dispatcher that requires acknowledgement shall be acknowledged via an acknowledgement key of the driver console keypad.
 - b. All unread messages are automatically displayed when the bus is stationary.
 - c. All messages sent by the dispatcher (voice and text) shall be kept in the console for two days and could be retrieved by the driver.
 - d. Other available keys of the driver console keypad are: emergency/accident, bus full, bus stop full of passengers, lost property, bus breakdown, report bus problem, request to record, request to talk.
 - e. When the mechanical keypad is not found, a soft keypad shall be available.
 - f. When a certain keypad is pressed (e.g. lost property, report bus problem), a form will be displayed on the console screen for driver to input information and/or record voice message. The form will be sent to OCS for further processing.

Part III Functional Requirements

- g. Application version number shall be sent to ROM (OCS) once a new version of application is successfully activated.
- h. Self-diagnostic functions shall be provided to check whether the driver console hardware and OBD interface functions normally. A screen to show problems detected shall be shown to the driver. Problems found shall also be sent to the ROM (OCS) if the communications part still functions.

Part IV External Interface Requirements

Part IV External Interface Requirements



1. ROM (DCS)

- 1.1 Messaging with OBD via Ethernet/USB/RS485 interface
- 1.2 Obtain driving behavior data thru messaging with OBD
- 1.3 Obtain bus stationary information thru messaging with OBD
- 1.4 Send driver messages to ROM (OCS) via OBD
- 1.5 Send Fare Collection Unit data to ROM (OCS) via ROM (DCS) (see 1.10)
- 1.6 Receive control center messages via OBD
- 1.7 Receive software update package of ROM (DCS) via OBD
- 1.8 Synchronize time from OBD
- 1.9 Receive diagnostic signals from OBD

Interface with Fare Collection Unit

- 1.10 Messaging with on-board Fare Collection Unit via RS485
- 1.11 Obtain operating data from Fare Collection Unit such as driver card ID, device ID, bus no., route no, destination, stage, no. of passengers boarded, no. of passengers alighted etc

2. ROM (OCS)

- 2.1 ROM (OCS) will operate on a database server provided by KMB running MS SQL Server
- 2.2 The database server is now already in place. A database instance (A) is storing the real-time telematics data of the day and ETA data
- 2.3 ROM(OCS) will operate on a new database instance (B) on the server to store its own data
- 2.4 ROM(OCS) can retrieve necessary data from the database instance (A) mentioned in 2.2
- 2.5 ROM (OCS) also needs data from other KMB in-house systems. Another database instance (C) will be created for the system interfaces: System interface data server.

Part IV External Interface Requirements

KMB in-house systems will post data to the database instance (C) periodically. This set of data includes but not limited to:

- 2.5.1 Master tables like bus master, bus routes master, employee master
- 2.5.2 Referential tables like bus type table, depot table
- 2.5.3 Operating data like bus and crew schedule information, trip records
- 2.6 ROM(OCS) shall also post its real-time data (such as bus departures, lost property data, messages reported by outdoor staff) to database instance (C) for use by KMB in-house systems

3. ROM (OCS) \leftrightarrow ROM (DCS)

- 3.1 ROM (DCS) sends driver messages to ROM (OCS) via OBD's mobile network
- 3.2 ROM (DCS) receives control center messages from ROM (OCS) via mobile network
- 3.3 ROM (DCS) receives its software update package via mobile network

Remark 1: Existing Database Server information

- (1) DBMS: MS SQL 2012 Service Pack 1
- (2) Software: VMware vSphere 5.1, Windows Server 2012, High Availability through vMotion

Remark 2: All data exchanges between DCS and OCS will be via the 3G mobile network installed at the OBD. Physical interface and protocol requirements are confirmed after mutual agreement by the Contractor and the OBD supplier.

The above is an overall description only. Detailed interface requirements are defined by both KMB and the Contractor in the user requirements collection process.

Part V System Hardware & Software Requirements

Part V System Hardware & Software Requirements

1. System Hardware (Driver Console)

1.1 General Description

- 1.1.1 A driver console is required to be installed on each of the buses for drivers to communicate with the Operations Control Centre. The console will be designed and installed in a way that would not cause safety hazard to drivers.
- 1.1.2 The console shall come with a main unit, a detached mechanical keypad, a detached microphone and loudspeaker. Refer to Appendix D, E and F for reference information on driver console. More descriptions on the required features are as follows:
 - a. Mobile network of 4G SIM modem shall be available. The network shall be able to automatically connect to 3G/2G if 4G/3G network cannot be detected (optional quotation).
 - b. The monitor shall be supported by a backlight so that it is still visible under a dark environment.
 - c. The monitor shall come with a cover to ensure it is still visible under the sunlight.
 - d. The monitor shall be UV protected to ensure it is durable under sunlight.
 - e. The driver console is automatically turned on when the OBD is working.
 - f. The driver console shall provide RS485 communication for system interfaces such as KMB's fare collection unit.
 - g. The driver console shall provide Ethernet/USB/RS485 interface for communication with OBD.
 - h. The driver console shall provide a user-friendly tool to drivers for adjusting the volume and screen brightness.

1.2 Standards

- 1.2.1 The latest edition of relevant and applicable British Standards (BS), International Organization for Standardization (ISO), Institution of Engineering and Technology (IET) (formerly Institution of Electrical Engineers (IEE)) or International Electrotechnical Commission (IEC) Standards shall be used. The Contractor may submit equivalent national standards; however, these must be submitted in English and approved by KMB.
- 1.2.2 All electrical works and installation shall be to the latest edition of the Institution of Electrical Engineers Regulations for Electrical Installations together with any amendments thereto.

1.3 Equipment Submission

- 1.3.1 The names of manufacturers of materials and equipment proposed by the Contractor for incorporation into the ROM, together with all relevant information including performance, capacities, sizes, technical specification, certified test reports, etc., shall be furnished when required by KMB which shall have the power to reject any part, which in its opinion is unsatisfactory, or not in compliance with the specifications and such part shall be replaced at no extra cost to KMB.
- 1.3.2. Approval by KMB of any set-up, equipment and materials shall not relieve the Contractor from its responsibility to comply with drawings, specifications and the required standards.

Part V System Hardware & Software Requirements

1.4 Drawing Submissions

- 1.4.1 The Contractor shall prepare and submit for the approval by KMB working drawings for all works under this Contract.
- 1.4.2 Approval by KMB of working drawings shall not relieve the Contractor of its responsibility to comply with the Contract unless specifically stated as not complying in the approval document.
- 1.4.3 Complete schedule of approved drawings shall be submitted prior to commencement of commissioning.

1.5 Design and Construction

- 1.5.1 Best efforts shall be made to produce an equipment design, which is both functional and attractive. Conceptual and style impressions shall be submitted as a preliminary stage in the development process. A proof of concept is required before confirmation of design and construction.
- 1.5.2 All equipment shall be designed and manufactured to facilitate inspection, cleaning and repair. Particular attention shall be given to the life expectancy and maintenance requirements.
- 1.5.3 Modular construction shall be used in the assembly of the constituent equipment installed in the vehicle.
- 1.5.4 All modules shall have a discrete serial number etched and engraved on the units.

1.6 Compliance with the Specifications

- 1.6.1 The requirements of the specifications shall be complied with in full. Any deviation to the specifications shall be submitted to KMB for approval.

1.7 General Technical Requirements of Driver Console

| | | |
|----|--|--|
| 1. | Operating temperature | 0 to 55 °C |
| 2. | Storage temperature | 0 to 75 °C |
| 3. | Humidity | 5% to 98% relative humidity |
| 4. | Ingress protection | IEC529 compliant, IP54 |
| 5. | Drop and vibration | applicable to the vibrant operating environment of buses |
| 6. | Electromagnetic Interference & Emissions (EMI) | conform to recognized international standards (Ref.: FCC Part15 Subpart, Class A; En55022: 1998, (CISPR22: 1997) Class A) |
| 7. | Electromagnetic Compatibility (EMC) & Immunity | conform to recognized international standards (Ref.: EN55024: 1998) |
| 8. | Safety | conform to recognized international standards (Ref.: UL1950, CSAC22No.950, EN60950, IEC950 ...etc.) |
| 9. | Power supply | <ul style="list-style-type: none"> - 24 V_{d.c.} nominal regulated @ 27 ± 0.5 V_{d.c.} - Transient voltage surge may be greater than 50 V_{d.c.} at time of starting engine - Total current consumption allowable: ≤ 5 A_{d.c.} |

Part V System Hardware & Software Requirements

2. System Hardware (ROM Backend Systems)

- 2.1 The contractor shall provide backend servers (both production and disaster recovery) for running of ROM with requirements specified in this document. The production servers will be installed at KMB Data Centre and will be connected to the KMB network. The disaster recovery servers with warm standby (switching from primary to standby servers to be completed within 15 minutes) will be installed at KMB's Disaster Recovery Centre. Database server will be provided by KMB with information provided in Part IV (External Interface Requirements) of this document. In the case of major system failure at the KMB Data Centre that rendered the OCS unavailable, OCS shall be restorable at the KMB Disaster Recovery Centre within one (1) hour without data loss and such switch-over shall be transparent to DCS and to the Operations Control Centres.
- 2.2 Other proposed servers such as web server, map server, application server, messaging and voice server etc. provided by contractor shall come with high availability feature allowing restoration of service within 15 minutes.

3. System Software

- 3.1 ROM shall be a web-based application on Internet Information Services (IIS 7.5 or above) conforming to HTML 5 standard. The development tool used shall be Visual Studio 2012 or above and the preferred programming language is C#.
- 3.2 The encoding, representation and handling of text shall conform to Unicode UTF-8 standard. All machine user interfaces shall be in Chinese, English or both Chinese and English.
- 3.3 Two versions of application software with effective date shall reside in the Driver Console so that the new version of software could be loaded through the mobile network before the effective date. If there is any problem with the new version during activation, the system shall fallback to the old version.
- 3.4 A logical identification number which shall be available to uniquely identify the Driver Console. The identification number shall be mapped to the MAC address of the Console.
- 3.5 All audio and video files shall be compressed before sending and decompressed before opening for user's view. The compression and decompression method shall be of the latest open compression technology/algorithm.

Part VI System Quality Requirements

Part VI System Quality Requirements**1. Quality**

- 1.1 The Contractor shall declare its quality plan which shall be ISO 9000 or equivalent. The plan shall be approved by KMB.
- 1.2 After award of Contract, the Contractor shall prepare and submit for the acceptance of KMB a system assurance plan which shall include schedules for the preparation and submission of data and analysis in respect of system safety, reliability and maintainability for the complete system and the equipment making up the system.
- 1.3 The system assurance plan shall also cover the quality aspects of project management and activities throughout the entire systems development cycle.
- 1.4 The system assurance plan shall identify the Dates of Completion as scheduled for accomplishment of these tasks. These requirements shall include but not limit to operation equipment interfaces, maintenance, training, rules and procedures.
- 1.5 The Contractor shall submit status reports of progress achieved and problem resolution in the areas of system safety, reliability, maintainability, and human factors based on a Dates of Completion chart included in the system assurance plan.
- 1.6 Full traceability of all components in relation to place, batch and date of manufacture shall be provided.

2. Security

- 2.1 The data design shall ensure all data downloads and uploads are secure with audit detection of any anomaly.
- 2.2 Authentication between devices shall ensure that non-genuine transmissions are prohibited.
- 2.3 The Contractor shall detail all security features of the system and shall provide sufficient information to enable these features to be implemented in any future system, equipment, or modules used in the expansion or development of the system.
- 2.4 All software and firmware shall be protected and immunized against any attack by malicious software.
- 2.5 All software and firmware shall be protected against unauthorized access and duplication.

3. Testing Requirements

- 3.1 The Contractor shall submit a detailed programme for the testing and commissioning prior to the commencement of activities.
- 3.2 All tests shall conform to the relevant BS, IET/ IEE, IEC Standards or its equivalents.

Part VI System Quality Requirements

- 3.3 The Contractor shall perform tests, to ensure that the equipment and system delivered meet the established criteria of performance, reliability and availability in every respect in accordance with the requirements of the specifications.
- 3.4 Testing of the equipment to be supplied under this Contract shall fall into the following main categories:
 - 3.4.1 Engineering prototype tests at Contractor's works
 - 3.4.2 Production prototype and environmental tests at Contractor's works
 - 3.4.3 Production tests at Contractor's works
 - 3.4.4 Trial run implementation monitoring
 - 3.4.5 Pilot implementation monitoring
 - 3.4.6 Performance tests in Hong Kong
 - 3.4.7 Acceptance tests on designated sites in Hong Kong
 - 3.4.8 System integration tests
- 3.5 The Contractor shall be responsible for submitting the test results to KMB for approval.

4. Engineering Prototype Tests

- 4.1 These tests shall comprise thorough testing by the Contractor of engineering prototype units and systems for type approval. These tests may be witnessed by KMB or its appointed representatives.
- 4.2 During the prototype tests, determination tests shall be conducted to provide confidence that the declared performance and reliability requirements are satisfied.
- 4.3 Individual units and the complete assemblies shall be tested and approved by KMB before any bulk production of any particular unit commences.
- 4.4 KMB shall be satisfied that all units forming the complete system meet its performance requirements both in standalone mode and within the system configuration.
- 4.5 Any correction shown to be necessary as a result of these engineering prototype tests shall be incorporated in the production units.

5. Production Prototypes and Environmental Tests

- 5.1 The Contractor shall demonstrate to KMB's satisfaction that the corrections deemed necessary as a result of engineering prototype tests have all been incorporated in the production prototypes.
- 5.2 The production prototypes shall be inspected for general standards of assembly, finishes and workmanship.
- 5.3 Environmental testing of sample units shall ensure that the units are suitable in all respects for the purpose intended and such testing shall include but not be limited to:
 - a. Vibration
 - b. Dust and airborne particles
 - c. Temperature

Part VI System Quality Requirements

- d. Humidity
- e. Accelerated life testing
- f. Testing over a range of electrical variables including transient and other perturbations
- g. Performance

6. Electromagnetic Compatibility Plan & Tests

- 6.1 The Contractor shall submit an Electromagnetic Compatibility (EMC) plan to KMB for approval after award of Contract. The plan shall adopt a top down approach and describe the EMC strategy and process.
- 6.2 The EMC plan shall identify a comprehensive list of specifications, standards, method statements and procedures to be submitted to KMB for approval. The EMC plan shall also include a programme, which shall identify the dates for EMC submissions.
- 6.3 The Contractor shall employ suitable design techniques and construction methods to minimize the effects of electromagnetic interference.
- 6.4 Susceptibility
 - 6.4.1 All electrical, communication and computer equipment set-up shall be immune to other equipment in the site environment. All interference mechanisms shall be considered, including radiated interference, induced interference, capacitive-coupled interference, conducted interference and electrostatic discharge. Major sources of interference to be considered in a bus include existing lighting, electronic destination board, smartcard equipment, electrical circuitry and control over sensitive door edge, power ramp, gear box, engine, and various items of rotating machinery such as alternator and starter.
 - 6.4.2 All electrical, electronic, communication and computer equipment of the Driver Console shall continue to function correctly under all normal levels of interference.
- 6.5 Emissions
 - 6.5.1 The electrical, electronic communications and computer equipment in association with the system upgrade shall not generate electromagnetic interference, which affects the operation of other equipment in both the site and bus operating environment described above.
- 6.6 Restrictions of Choice of Frequencies
 - 6.6.1 The frequencies and bandwidths used for wireless communication shall be chosen so that the fundamental frequencies, harmonics and cross-products generated by the plant shall not interference with those of other existing systems in vehicle and in site.
 - 6.6.2 The frequencies and bandwidths employed in the site operation shall exclude those frequencies known to be major sources of interference.
- 6.7 The EMC plan shall be used throughout the design process to ensure no interference with and no susceptibility to external equipment.

Part VI System Quality Requirements

6.8 The EMC plan shall outline the extent of testing proposed by the Contractor both before and after the equipment has been installed. The plan shall include but not be limited to activities to investigate and rectify EMC problems encountered after installation.

6.9 EMC Tests

6.9.1 The Contractor shall include the following tests in the EMC plan, or propose an equivalent set of tests based on alternative standards:

- a. RFI immunity tests
- b. conducted RFI
- c. static discharge
- d. transient and surges

7. Production Tests

7.1 The Contractor shall undertake the testing and certification of all materials and components, sub-assemblies and unit assemblies used in the line production process. Details of these tests shall be agreed with KMB and approval obtained before equipment is packed for shipment.

7.2 Tests shall include but not be limited to:

- a. physical inspection
- b. dimension check
- c. electrical check
- c. calibration check
- d. output check
- e. operational check
- f. loading check

Part VII Performance and Reliability Requirements

Part VII Performance and Reliability Requirements

1. ROM (OCS)

- 1.1 The response time of bus trip management functions shall be within 3 seconds in 95% of all cases under the peak load condition, ie when the total number of concurrent users as defined in Appendix C use the system simultaneously. Even the most complicated function shall not exceed 20 seconds.
- 1.2 The display of bus monitoring functions shall be refreshed every 3 seconds where 3 is a configurable time. The response time shall be within 3 seconds in 95% of all cases under the peak load condition, ie when the total number of concurrent users as defined in Appendix C use the system simultaneously.
- 1.3 The response time and performance of other functions shall be defined before system integration test of pilot run (phase 1).
- 1.4 The availability of OCS must be achieved at over 99.95% for every month upon the acceptance of OCS.
- 1.5 OCS shall be able to process a minimum of 16,000 operational data messages to buses per hour.
- 1.6 For voice messaging performance, OCS shall be able to handle a minimum of 1,200/hour-voice call connections. Voice shall be of high clarity.
- 1.7 For TTS voices, human voice clarity is preferred.

2. ROM (DCS)

- 2.1 The driver console start up time shall be within 12 seconds to show the first display screen (diagnostic result) to driver. The total start up time shall be within 24 seconds.
- 2.2 The loading of driver console application over the mobile network shall be completed within 1 minute. The activation of such application in the console shall be less than 30 seconds.
- 2.3 The loading of driver console firmware over the mobile network shall be completed within 3 minute. The activation of such application in the console shall be less than 1 minute.
- 2.3 The time to display the relevant screen on the driver console shall be within 1 second after the driver presses the physical button.
- 2.4 The time to display the relevant screen on the driver console shall be within 1 second after the information is sent from the OBD.
- 2.5 The time to generate voice from TTS text shall be within 2 second when the text message is sent from the OBD.

Part VII Performance and Reliability Requirements

- 2.6 The voice produced by the driver console system shall be distinguished by the driver under background noise level not exceeding 68 dB(A).
- 2.7 The performance and reliability* indices of the driver console must be achieved at least 90% at the commencement of the trial run, more than 95% at the commencement of the pilot run, more than 99.5% at the end of the pilot run (subject to review in due course). Also, most important of all, the Contractor shall ensure data integrity at all material times. That is to say, any relaxation in any reliability indices above shall incur no adverse impacts on the full integrity of data.

Remark: * The definition of performance and reliability shall be mutually agreed before trial run and shall include but not limited to the followings: number of faulty equipment, MTBF, number of system failures, data upload/download error. The specified percentages represent the corresponding monthly average.

Part IX Documentation and Training Requirements

Part VIII Maintenance & Supporting Tools Requirements

1. The ROM system will be running 24-hours round the clock although from around 2:00am to 5:30am, there will only be less than two hundred overnight running buses operating. However, on some festival days, more overnight running buses will be operating.
2. The Contractor shall provide warranty services and rectify defects of ROM and related system integration. The system maintenance hours and response time are as follows:

| | | |
|----|--|--|
| 1. | On-site support hours | For Pilot Runs: Monday to Sunday: 05:00 – 24:00 Normal office hours after Pilot Run: Monday – Friday: 09:00 – 18:00 Saturday: 09:00 – 23:00 |
| 2. | Off-site support hours (24-hour hotline) | If critical problem is found that causes disruption to normal operation, on-site support will be required with support personnel to arrive at the designated site within 2 hours upon request. |
| 3. | Response time after the call | 15 minutes – for critical problem on the system that causes disruption to normal operation 2 hours – if the system is still working but with minor faults found. |
| 4. | Turnaround time for repair of Driver Console (<14 days) (Malfunctioned Driver Console will be uninstalled by KMB and sent to the Contractor for diagnosis and repair) | For general maintenance, turnaround time for the Driver Console is 5 working days. |

3. The Contractor shall provide development systems, demonstration equipment and diagnostic tool for ROM.
4. The development systems shall be supplied to enable system and equipment software development, and compilation of machine executable codes for production system. The development system shall be ready before pilot run.
5. A complete set of demonstration equipment for the Driver Console shall be provided which shall show the multi-application nature of the system and be used as a testing platform for new applications.
6. A complete set of diagnostic tool for the Driver Console shall be provided to enable any major firmware upgrade that is not feasible to be transmitted over the air, and for on-site diagnosis.

Part IX Documentation and Training Requirements

Part IX Documentation and Training Requirements

1. Documentation

- 1.1 The Contractor shall submit all operation and maintenance manuals in relation to equipment and systems in accordance with the specifications.
- 1.2 The Contractor shall supply a detailed list of documentation to be supplied together with its quantity for the approval by KMB.
- 1.3 The documentation shall include but not be limited to the following: overall system manual describing the system configuration, data and file transmission and downloading methods.
- 1.4 Equipment parts manuals – component layout drawings shall show the location of each individual component used in a unit, sub-unit and plug-in card, marked in its circuit reference number, outline and polarizing details where necessary.
- 1.5 Circuit diagrams, logic diagrams, and block diagrams for the operation and maintenance of the equipment and system.
- 1.6 Software documentation
 - 1.6.1 Document for all computer software supplied under the Contract shall be provided.
 - 1.6.2 The documentation shall enable KMB to fully modify and develop the software supplied under the Contract.
 - 1.6.3 The documentation shall include programme descriptions, algorithms, listings, label cross-reference tables, source with inline comments, and object disks, flowcharts, sub-routine hierarchy, methods, criteria of execution and other necessary information. This information shall be supplied prior to system commissioning.
 - 1.6.4 Manuals relating to the operating system of the computer systems shall be provided by the Contractor.
- 1.7 The Contractor shall provide the following documents during the course of the project to support KMB operations of the ROM System:

| Item | Document Name | Purpose | Intended Audience | Format | Language |
|------|-------------------------------------|--|---------------------|--------|----------|
| 1 | ROM System – Overview of the system | An overview document introducing the overall system, configurations, data transmission and application upgrade mechanisms especially on driver console | Technical Personnel | PDF | English |
| 2 | Manuals for OCS | | | | |
| 2.1 | ROM (OCS) functional specification | A specification describing the functions of ROM (OCS) | Technical Personnel | PDF | English |

Part IX Documentation and Training Requirements

| Item | Document Name | Purpose | Intended Audience | Format | Language |
|-------------|--|---|---------------------------------|---------------|---------------------------------|
| 2.2 | ROM (OCS) design specifications | A specification describing the ROM (OCS) system design | Technical Personnel | PDF | English |
| 2.3 | ROM (OCS) program specifications | A specification describing the ROM (OCS) source code modules (programs/scripts or the like) | Technical Personnel | PDF | English |
| 2.4 | ROM (OCS) installation manual | Documentation for KMB technical staff to install OCS. | Technical Personnel | PDF | English and Traditional Chinese |
| 2.5 | ROM (OCS) user manual | An user documentation for Operation Control Centre Staff to use the ROM (OCS) system | Depot staff | PDF | Traditional Chinese |
| 2.6 | ROM (OCS) operations manual | A manual with relevant diagrams for KMB engineers to perform daily operation, technical maintenance and diagnostic of the ROM (OCS) system | Technical Engineers | PDF | English and Traditional Chinese |
| 2.7 | ROM (OCS) disaster recovery manual | A manual detailing the procedure of how the ROM (OCS) system may be switched from running on the production servers to the disaster recovery servers. | Technical Engineers | PDF | English |
| 3 | Manuals for DCS | | | | |
| 3.1 | Driver Console Equipment Parts Manual and Bill of Materials list | A manual describing the equipment parts of the system and Bill of Materials List | Technical Maintenance Personnel | PDF | English |
| 3.2 | ROM (DCS) functional specification | A specification describing the functions of ROM (DCS) | Technical Personnel | PDF | English |
| 3.3 | ROM (DCS) design specifications | A specifications describing the ROM (DCS) system design | Technical Personnel | PDF | English |
| 3.4 | ROM (DCS) program specifications | A specification describing the ROM (DCS) source code modules (programs/scripts or the like) | Technical Personnel | PDF | English |

Part IX Documentation and Training Requirements

| Item | Document Name | Purpose | Intended Audience | Format | Language |
|------|----------------------------------|--|---------------------|--------|---------------------------------|
| 3.5 | ROM (DCS) installation manual | Documentation for KMB engineers to install the Driver Console on the vehicle | Technical Engineers | PDF | English and Traditional Chinese |
| 3.6 | Driver Console user manual | An simple user documentation for drivers to handle the Driver Console | Drivers | PDF | English and Traditional Chinese |
| 3.7 | Driver Console operations manual | A manual with relevant diagrams for KMB engineers to perform technical maintenance and diagnostic for Driver Console | Technical Engineers | PDF | English and Traditional Chinese |

The documents shall be reviewed before formal submission and approved by KMB.

- 1.8 For third party software, the Contractor will provide the third party manuals or pointer for KMB to download the required third party software manuals.
- 1.9 Hardware and software specifications of ROM (OCS) and ROM (DCS) will be provided. The relevant operation and maintenance manuals will also be included.
- 1.10 Both hard and soft copies of drawing and diagrams will be included. However, relevant tools for reading the drawing files, e.g. CAD tools, will not be included.
- 1.11 In addition to the technical specifications mentioned, the Contractor will also build an interface specification for all external and internal system interfaces after system design has finalized. It is expected to be delivered after completion of System Integration Test of ROM (DCS).
- 1.12 The Contractor will also submit test plans and test reports to KMB for review and acceptance. Regular progress reports will also be submitted to KMB for review and comment.

2. Technology Transfer Training

- 2.1 KMB I.T. technical staff shall be involved in system development including detailed system design, coding, testing etc. Technology transfer training shall also be provided to the technical staff.
- 2.2 Technology transfer training shall be provided to KMB I.T. staff so that the system could be maintained by KMB. Training shall include system operation, trouble shooting and system enhancement etc. Details of the training class and schedule shall be mutually agreed before trial run. Sample training schedule is as follows:

Part IX Documentation and Training Requirements

2.2.1 For OCS:

| Item | Course description | No of courses* | Participants per course | Total no of participants | Course schedule |
|------|---------------------------------------|----------------|-------------------------|--------------------------|--|
| 1 | System Operation & trouble shooting | 1 | 10 | 10 | After user acceptance test (phase 1 pilot run) |
| 2 | Maintenance (preventive & corrective) | 1 | 10 | 10 | After user acceptance test (phase 1 pilot run) |
| 3 | Design and support courses | 2 | 10 | 10 | After user acceptance test (phase 1 pilot run) |

2.2.2 For DCS:

| Item | Course description | No of courses* | Participants per course | Total no of participants | Course schedule |
|------|---------------------------------------|----------------|-------------------------|--------------------------|--|
| 1 | System Operation & trouble shooting | 1 | 10 | 10 | After user acceptance test (phase 3 pilot run) |
| 2 | Maintenance (preventive & corrective) | 1 | 10 | 10 | After user acceptance test (phase 3 pilot run) |
| 3 | Design and support courses | 2 | 10 | 10 | After user acceptance test (phase 3 pilot run) |

3. User Training

| Item | Course description | No of courses | Participants per course | Total no of participants | Course schedule |
|------|----------------------------|---------------|-------------------------|--------------------------|--------------------------------|
| 1 | OCS training for trainer | 2 | 10 | 20 | Before pilot run (phase 1) UAT |
| 2 | OCS training for trainer | 2 | 10 | 20 | Before pilot run (phase 2) |
| 3 | DCS training for trainer | 2 | 10 | 20 | Before pilot run (phase 2) |
| 4 | OCS training for all users | 2 | 20 | 40 | Before pilot run (phase 3) |
| 5 | DSC training for trainer | 5 | 10 | 50 | Before implementation |
| 6 | OCS training for all users | 4 | 20 | 80 | Before implementation |

Part X Implementation Plan and Milestone Dates

Part X Implementation Plan and Major Milestones

1. Introduction

- 1.1 Upon signing of contract, KMB will provide a Detailed User and System Interface Requirements document to the Contractor. This document will be used as a basis for discussion for confirmation of KMB requirements. The provision of such document helps to shorten the time required for user requirements collection to be performed by the Contractor. In system design, KMB shall be involved as there are interfaces requirements. The final system design shall be reviewed (at least two rounds shall be catered for) and approved by KMB.
- 1.2 ROM (OCS) (without driver communication functions) will be delivered first to ensure that the system is stable before drivers are involved in the pilot run of the entire system.

2. Pilot Runs

- 2.1 There will be three phases of pilot runs. Phase 1 will be for ROM (OCS) (without driver communication functions). This pilot run will be taken place at the Lai Chi Kok Operations Control Centre and at one dispatcher working desk at each of the four depots or bus termini, namely, Kowloon Bay Depot, Shatin Depot and Tuen Mun Depot, and LWB.
- 2.2 Phase 2 and 3 pilot run will be for ROM (OCS) and ROM (DCS). Phase 2 (ie driver console trial) involves 30 buses having driver console installed on one to two routes. While Phase3 involves a total of 220 buses and around 15 routes.
- 2.3 The Contractor is required to provide first and second line maintenance services:
The required response time for the first line maintenance service (service hours from 05:00 to 24:00) is as follows:
 - a. within 1.5 hours – if the equipment goes out of service; or
 - b. within 2.0 hours – if the equipment is still working but with minor faults found
- 2.4 Before commencement of the pilot run (Phase 1 and Phase 2), approval of commissioning test, system integration test and user acceptance tests are required.
 - 2.4.1 Commissioning Test
 - a. The Contractor is required to perform a range of commissioning tests to demonstrate that all items have been correctly installed and that the system operates in every respect in accordance with the specifications. These tests shall be conducted in accordance with the specifications and be subject to the approval of KMB. They shall be performed by the Contractor and witnessed by KMB representative. Any defect, which becomes apparent in the course of these tests, shall be immediately rectified and corresponding remedy properly incorporated into the system by the Contractor at its expense.
 - 2.4.2 System Integration Test
 - a. After completion and approval of all commissioning tests, the Contractor is required to perform a range of system integration tests to verify that the entire system performs properly with systems of different levels including OCS and DCS, and integration with KMB Data servers. These tests shall be submitted in accordance with the specified programme and be subject to the approval of KMB's appointed representatives. They shall be performed by

Part X Implementation Plan and Milestone Dates

the Contractor and witnessed by KMB's appointed representatives. Any defect, which may become apparent during the course of these tests, shall be immediately rectified and corresponding remedy properly incorporated into the system by the Contractor at its expenses. The tests shall include functional and operational tests of the system and of all equipment. System accuracy and performance shall be observed and reported.

2.4.3 User Acceptance Test

- a. Upon approval of the system integration test by KMB, User Acceptance Test performed by KMB shall commence. The test shall cover at least two rounds of functional tests, three rounds of system performance tests and two rounds of stress tests. The test plan, detailed schedule and acceptance criteria shall be submitted by the Contractor and approved by KMB before System Integration Test. The Contractor shall assist KMB and provide the necessary tools for KMB to effectively conduct the User Acceptance Tests including but not limited to tools and procedures for the simulation of concurrent user sessions and generation of the required data loading.

- 2.5 Upon successfully completion and approval of the user acceptance test, Phase 1 and Phase 2 of pilot run, a full scale pilot run (Phase 3) will be commenced. The scale of Phase 3 pilot run will be for 220 buses including the 30 buses during Phase 2 from selected routes. The installation of driver console will be in batches of 30 buses during Phase 2 pilot run until a total of 220 buses is reached at end stage of Phase 3 pilot run.

3. Evaluation

- 3.1 Evaluation and review on system performance and suitability will be based on the following criteria, on a weekly basis, as soon as the pilot run (Phase 1), pilot run (Phase 2) and full scale pilot run (Phase 3) takes effect:

3.2 Criteria:

- a. Data integrity – data completeness among different systems
- b. Data accuracy – correctness of data in all functions
- c. System performance and reliability- as specified in Part VII
- d. System scalability – no performance impact for data growth as specified in Appendix A
- e. System functionality – system performs functionally in compliance with this specification and the Detailed User and System Interface Requirements

- 3.3 Contractor is required to provide the corresponding project management plan, risk management plan and quality assurance plan in support of its proposed technical methodology and approach for KMB endorsement before implementation.

- 3.4 The Contractor shall submit the corresponding consolidated reports and records to KMB for evaluation and approval.

4. Full Production Implementation

- 4.1 Implementation shall commence upon KMB's approval of completion of the pilot run.

Part X Implementation Plan and Milestone Dates

- 4.2 The scope of the implementation shall generally be as follows:
- 4.2.1 Equipping the full fleet of 3,000 buses with driver consoles by batches at four main depots (Kowloon Bay, Shatin, Tuen Mun and Lai Chi Kok) (the exact number of buses will be confirmed at contract signing stage. The schedule of implementation will be mutually agreed at system integration test).
 - 4.2.2 The detailed methodology of implementation shall be proposed by the Contractor and approved by KMB.
 - 4.2.3 A master implementation programme for full fleet implementation with incorporation of all previous corrections/enhancements of equipment and system design agreed in the pilot runs shall be submitted for KMB's approval immediately after confirmation of a successful system integration test mentioned above. Provision for KMB to adjust and review by the end of trial run and pilot runs should be made.

Part X Implementation Plan and Milestone Dates

5. Milestone Dates

Below are the milestone dates for Contractor's reference:

| Milestone Activities | End Date | | Remark |
|--|--------------|-------------|--|
| | OCS | DCS | |
| 1. Project Plan Submission | 28-Feb-2014 | | |
| 2. User requirements Confirmation | 28-Feb-2014 | | |
| 3. System Design | 29-Mar-2014 | | |
| 4. System Integration Test (phase 1 pilot run) | 30-Aug-2014 | -- | Phase 1 pilot run: all OCS functions except those interfacing with DCS |
| 5. Engineering Prototype | -- | 30-Aug-2014 | |
| 6. Production Prototype | -- | 30-Sep-2014 | |
| 7. User Acceptance Test (phase 1 pilot run) | 15-Oct-2014 | -- | |
| 8. Training for pilot run (phase 1 pilot run) | 15-Oct-2014 | -- | |
| 9. Laboratory Test and Certification | -- | 31-Oct-2014 | |
| 10. Pilot run (phase 1) Completion | 11-Dec-2014 | | |
| 11. System Integration Test (phase 2) | 31-Oct-2014 | | Phase 2 pilot run: 30 buses installed with driver console |
| 12. User Acceptance Test (phase 2) | 30-Nov-2014 | | |
| 13. Training for pilot run (phase 2) | 30-Nov-2014 | | |
| 14. Installation for pilot run (phase2) run (30 buses) | -- | 31-Dec-2014 | |
| 15. Pilot run (phase 2) Completion | 31-Jan-2015 | | |
| 16. Training for pilot run (phase 3) | 31-Jan-2015 | | Phase 3 pilot run: 220 buses installed with driver console |
| 17. Installation for pilot run (190 buses) completion | -- | 9-Apr-2015 | |
| 18. Pilot run (phase 3) Completion | 30-Apr-2015 | | |
| 19. Training for full fleet Completion | 31-Jul-2015 | | |
| 20. Installation Phase 1 – 500 buses installed and commissioned | -- | 31-Aug-2015 | |
| 21. Installation Phase 2 – 1,000 buses installed and commissioned | -- | 31-Dec-2015 | |
| 22. Installation Phase 3 – 1,280 buses* installed and commissioned | -- | 31-Mar-2016 | * Total no. of buses to be confirmed |
| 23. Supply and deliver of 150 sets of Driver Console | | 31-Mar-2016 | Spare driver consoles |
| 24. Project Completion | 30-June-2016 | | |

Appendices

Appendix A Estimated Data Volume and DCS Loading

(1) Estimated Data Volume

| Item | Data | Estimated Total |
|------|--|-----------------|
| 1 | Number of buses | 4,000 |
| 2 | Number of routes | 500 |
| 3 | Number of bus stops | 5,000 |
| 4 | Number of bus termini | 300 |
| 5 | Number of trips | 65,000 |
| 6 | Number of drivers | 9,000 |
| 7 | Number of staff excluding drivers | 3,500 |
| 8 | Number of text messages/hour | 16,000 |
| 9 | Number of TTS messages/hour | 16,000 |
| 10 | Number of two-way voice communication/hour | 16,000 |

The contractor shall allow for at least 20% increase in data volume in the ROM system for both hardware and software.

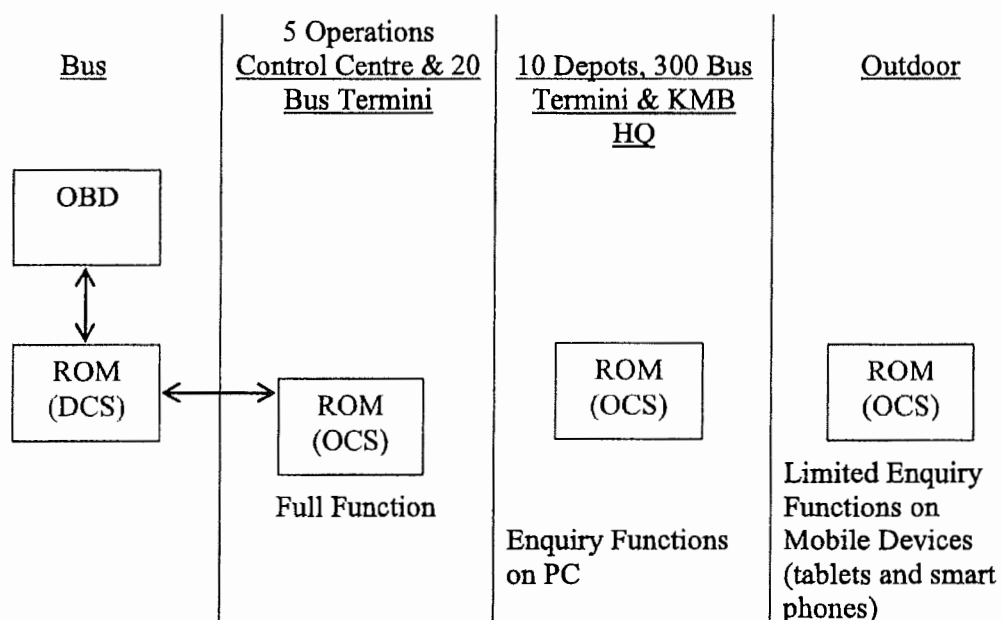
(2) Estimated DCS Loading

| | Function | Peak Load | Average Load |
|-----------|---|-----------------------|----------------------|
| ROM (DCS) | Receiving message from ROM (OCS) | 20 messages per hour | 4 messages per hour |
| | Receiving driving behavior & bus stationery messages from OBD | 1 message per second | 1 message per second |
| | Sending messages to ROM (OCS) | 20 messages per hour | 4 message per hour |
| | Receiving message from fare collection device | 2 messages per minute | 30 messages per hour |

Appendix B Possible Bus Service Restoration Options

| Scenario | Possible Bus Service Restoration Options | | | | | | | |
|-------------------------|--|-------------------------------------|-------------------|-----------------------|-----------------------|------------|----------------------|-------------------------|
| | Regulation for buses on the road | Regulate/ Even out departure at B/T | Mid-way departure | Assign additional bus | Arrange bus diversion | Line split | Arrange shortworking | Deadrun to opposite B/T |
| Bus bunching | X | X | | | | | | |
| Traffic congestion | | X | X | X | X | | X | X |
| Crew/ Vehicle shortage | | X | X | X | | | | |
| Road blockage / closure | | | X | X | X | X | X | |
| Mechanical Breakdown | | X | X | X | | | | |
| Bus Accident | | X | X | X | | | | |

Appendix C Number of Concurrent Users at Different Locations



Number of Concurrent Users using ROM (OCS)

| User | Number of Concurrent Users | | Location |
|----------------------------------|----------------------------|-----------|-----------------|
| | Pilot Stage | End Stage | |
| Bus Drivers | Less than 400 | 4000 | On Bus |
| Controllers | 8 | 80 | Control Centres |
| Operations Officers and Managers | 10 | 60 | Depots and HQ |
| Inspectors | 10 | 90 | Outdoor |

Number of Concurrent Users using ROM (DCS)

| User | Number of Concurrent Users | | Location |
|-------------|----------------------------|-----------|----------|
| | Pilot Stage | End Stage | |
| Bus Drivers | Less than 400 | 4000 | On Bus |

Appendix D Driver Console Requirements Summary

1. Driver Console Unit (DCU)

| | |
|--------------------------------|--|
| Installation Location | Somewhere near the upper left-hand side in front of the driver's dash panel |
| Dimension | About 170 (L) x 135 (W) x 20 (H) mm (with 6/7 inches (152/178 mm) touch-sensitive color monitor) |
| Color | Grey |
| Other features and requirement | <ol style="list-style-type: none"> 1. Monitor screen with anti-reflection feature 2. UV protected 3. Industrial grade 4. An on/off mechanical button 5. Soft keypad with the same number of buttons as the mechanical keypad described below. 6. Voice recording function 7. Support 4G mobile network (optional) 8. Monitor to be illuminated by backlight 9. Driver console to be installed and mounted on an adjustable rack 10. Device is colored touch sensitive monitor 11. Monitor to be come with a tiny cover for improving the visibility under the sunlight 12. Power on light for indicating the device is being tuned on automatically when the on-board is working 13. The console shall be mounted and dismounted with a physical key 14. The console shall be embedded with an anti-theft system (separate quote on cost) 15. Buzzers are to be provided for different sound beats under different operational scenarios 16. A tool to adjust the volume and screen brightness |

2. Mechanical Keypad

| | |
|--------------------------------|---|
| Installation Location | It is installed a bit underneath the left hand side of BC's dash panel |
| Dimension | About 150 (L) x 65 (W) x 20 (H) mm |
| Color | Grey |
| Other features and requirement | <ol style="list-style-type: none"> 1. With 10 buttons, 8 of which for designated function whereas the remaining 2 for expansion in future 2. Keypad to be illuminated by backlight (optional quote) 3. Power on light for indicating the device is being tuned on automatically when the on-board device is working 4. This mechanical keypad is activated if detected by the main unit of the Driver Console |

3. Microphone

| | |
|-----------------------|--|
| Installation Location | Somewhere near the right hand side control panel at offside of the BC driving cab window |
| Dimension | to be provided by the Contractor after choosing a suitable type |
| Color | Grey/black |

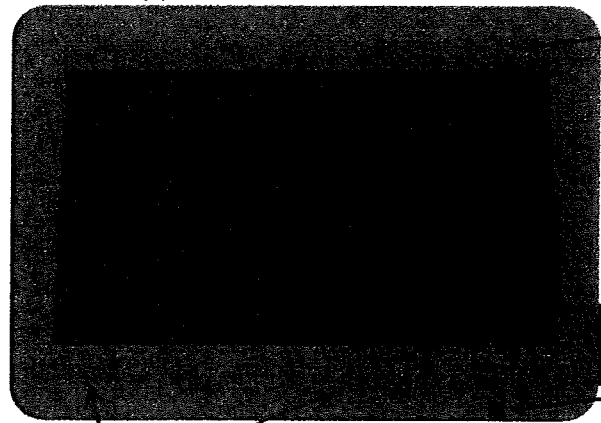
4. Loudspeaker(s)

| | |
|-----------------------|---|
| Installation Location | Somewhere at the ceiling top of the BC's driving cabin at rear right hand side (subject to availability of space of different bus type) |
| Dimension | to be provided by the Contractor after choosing a suitable type |
| Color | Grey/black |

5. Details please refer to Appendix E for pictorial description and Appendix F for dimension sketch of the Driver Console. The Contractor can use information of these two appendices as a reference but shall propose a Driver Console that fits for the purpose of this contract.

Appendix E Driver Console Pictorial Description

Hardware (1) - Driver Console Main Unit

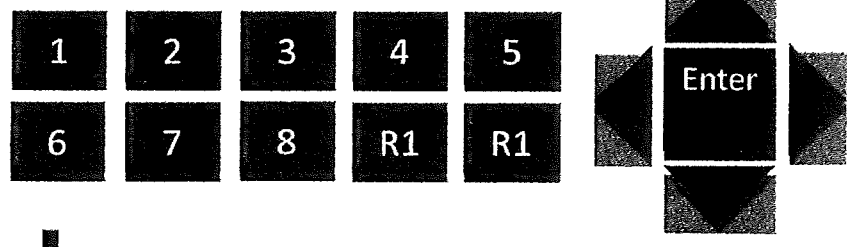


A slight cover/canopy will be fabricated to ensure the visibility of the screen under the strong sunlight

A couple of buzzers to be provided

Power on indication light

Hardware (2) - Detachable Mechanical Keypad
(10 buttons with 2 reserved for future expansion)



Hardware (3) - Microphone



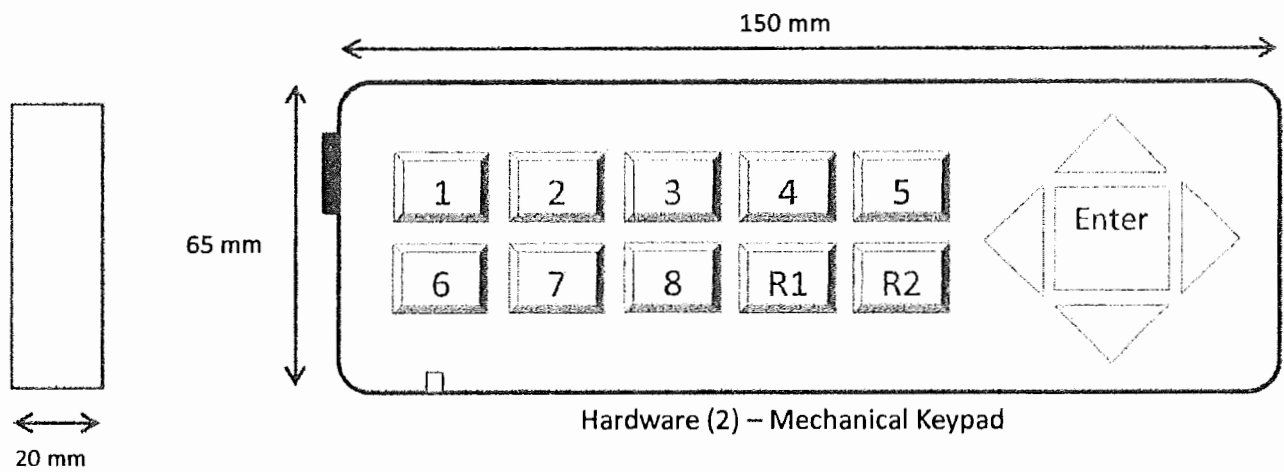
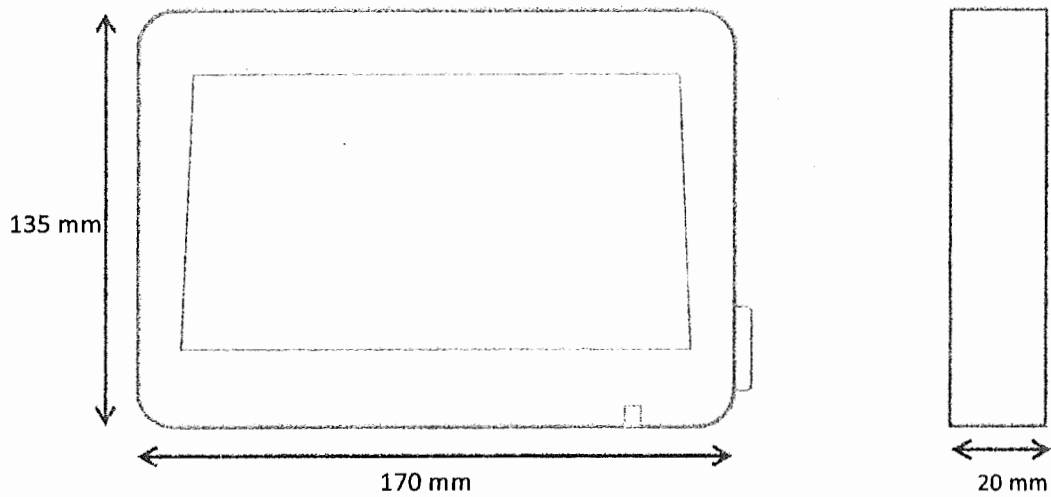
Hardware (4) - Loudspeaker



About 60 x 40 (mm)

Appendix F Driver Console Dimension Sketch

Hardware (1) – Driver Console Unit



The Kowloon Motor Bus Company (1933) Limited

9 Po Lun Street

Lai Chi Kok

Kowloon

HONG KONG

Tender Document

Real-time Operations Management System

Tender Reference:

2013/SUB/TEN/0038

Tender Closing Deadline:

8 November 2013

10:00 AM (HKSAR Time)

Contents

| | | |
|------|---|----|
| 1. | Scope of Tender | 1 |
| 1.1 | Requirement Scope | 1 |
| 1.2 | Prime Contractor Role..... | 1 |
| 2. | Information for the Tenderer | 1 |
| 2.1 | Tender Document | 1 |
| 2.2 | Tender Assessment | 1 |
| 3. | Conditions of Tender | 2 |
| 3.1 | Tender Closing Deadline | 2 |
| 3.2 | Preparation and Lodgment of Tender..... | 2 |
| 3.3 | Enquiries and Addenda | 3 |
| 3.4 | Tenderer to inform itself..... | 3 |
| 3.5 | Options..... | 4 |
| 3.6 | Validity Period | 4 |
| 3.7 | Notification of Tender Result..... | 4 |
| 3.8 | Effect of Tender Submission | 4 |
| 3.9 | Offers of Gratuities | 4 |
| 3.10 | Anti-collusion | 4 |
| 4. | Information required from the Tenderer | 5 |
| 4.1 | Tender Schedules to be completed and submitted by the Tenderer | 5 |
| 4.2 | Other information to be completed and submitted by the Tenderer | 5 |
| 5. | Conditions of Contract..... | 27 |
| 6. | ROM Specifications Document | 27 |

1. Scope of Tender

1.1 Requirement Scope

The scope of this tender is for the design, development, manufacture, supply, delivery, installation, test and commissioning of the Real-time Operations Management System ("ROM") (hereinafter referred to as the "Services") for The Kowloon Motor Bus Company (1933) Limited ("KMB") and Long Win Bus Company Limited ("LWB"), in the Hong Kong Special Administrative Region of the People's Republic of China ("HKSAR"), in accordance with the terms and conditions specified in this document (the "Tender Document"). The term "Tenderer" shall mean the company which submits a tender offer ("Tender Offer") to KMB in response to this tender. KMB shall be responsible for conducting this tender exercise.

1.2 Prime Contractor Role

The Tenderer shall act as the prime contractor who is solely responsible for carrying out the Services for KMB and LWB in accordance with the ROM Specifications Document in the Tender Document on a turnkey basis, and must assume all the obligations, responsibilities and liabilities for carrying out the Services (where applicable) and after sales services.

2. Information for the Tenderer

2.1 Tender Document

2.1.1 This Tender Document consists of:

- (a) Information for the Tenderer
 - (b) Conditions of Tender
 - (c) Information required from Tenderer
 - (d) Conditions of Contract for ROM which are provided separately in Microsoft WORD file format
 - (e) ROM Specifications Document, which are provided separately in Microsoft WORD file format
- together with the tender schedules ("Tender Schedules") and the Microsoft EXCEL file to be completed and returned by the Tenderers upon submission of tender.

2.1.2 The successful Tenderer shall be required to enter into formal contract(s) with KMB and/or LWB in accordance with the terms and conditions as stipulated in Clause 5 of this Tender Document ("**Formal Contract(s)**").

2.2 Tender Assessment

2.2.1 Evaluation of Tenders

Tender Offer / proposal shall be reviewed and evaluated in its entirety as a whole and KMB is not bound to accept the lowest price tender or any tender. KMB reserves the rights to:

- (a) conduct negotiation with the shortlisted parties after tender evaluation to finalize the Formal Contract(s),

- (b) Accept or reject all or any part of any Tender Offer / proposal subject only to the sole and absolute discretion of KMB and LWB.

3. Conditions of Tender

3.1 Tender Closing Deadline

The Tenderer must deliver its Tender Offer to KMB on or before the tender closing deadline as stipulated below. The Tenderer shall clearly mark the tender reference below in all its tender submission by whatever means. Late and incomplete tenders may not be accepted and may be excluded from consideration.

Tender Reference: 2013/SUB/TEN/0038 ("Tender Reference")

Tender Closing Deadline: **[8 November 2013]**, 10:00 am HKSAR Time ("Tender Closing Deadline")

3.2 Preparation and Lodgment of Tender

- 3.2.1 The Tenderer shall prepare and submit its Tender Offer (in hard copy and electronic format) in accordance with the terms and conditions specified in this Tender Document at the Tenderer's own costs.

- 3.2.2 Tender Offers shall be submitted in two separate packages in the manner as specified below:

(a) Tender Offer Package A - to be submitted electronically

The Tenderer shall fill out the Tender Schedule TS-4 provided by KMB in Microsoft EXCEL file format, and encrypt the quotation data to create a text file by using the built in macro functions.

The Tenderer shall deliver this Tender Offer Package A which contains the encrypted quotation text file as described in this Sub-clause (a) to the KMB Purchasing Department by electronic mail at the below designated electronic tender box.

Electronic Tender Box address: tenders@kmb.hk

(b) Tender Offer Package B – to be submitted personally

The Tender Offer Package B ("Package B") shall include the completed and duly signed Form of Tender, and all Tender Schedules (other than Tender Schedule TS-4) completed by the Tenderer, and all other relevant supporting documents as specified in Clause 6 in this Tender Document.

Package B shall be packed in sealed envelope(s) clearly marked with the Tender Reference.

The Tenderer must submit personally one full set documents of Package B to be marked with "ORIGINAL" and four (4) sets of these documents to be marked with "COPY" to the tender box which is located at

KMB Purchasing Department
12/F KMB Headquarters
9 Po Lun Street, Lai Chi Kok, Kowloon

The Tenderer shall also submit six (6) complete soft copies (stored at USB or compact disc) of its Package B to be marked with "SOFT COPY". Tenderers are reminded to cross examine all their respective Tender Offer data submitted in different formats and to ensure that all such data are free from typographical errors and contradictions. In case there is any discrepancy between the sets, the Tender Offer marked with "ORIGINAL" shall prevail.

3.3 Enquiries and Addenda

3.3.1 Tenderer's enquiries (if any) must be sent to KMB in accordance with the below instructions no later than 28-October-2013, 5:00 pm HKSAR Time:

(a) Commercial enquiries

To: KMB Purchasing Department

E-mail: kmb.purchasing@kmb.hk

(b) Technical enquiries

To: KMB Information Technology Department

E-mail: cyip@kmb.hk

The Tenderer shall state on the e-mail subject heading "Tender Enquiry - 2013/SUB/TEN/0038 and provide full contact details in the message. Late submission of enquiries may not be entertained.

3.3.2 Addenda may be issued prior to the Tender Closing Deadline for the purpose of clarifying this Tender Document or to effect modification to any of the terms and conditions of this Tender Document. Each addendum issued shall be distributed to each Tenderer via e-mail by the Purchasing Department of KMB from the designated e-mail address stated in the above 3.3.1(a). The Tenderer must acknowledge receipt of each note by confirmation e-mail to the Purchasing Department. For the avoidance of doubt, the addenda issued shall form part of this Tender Document. In case of inconsistency between this Tender Document and the Addenda, the Addenda shall prevail.

3.4 Tenderer to inform itself

The Tenderer shall be deemed to have:

- (a) examined the Tender Document and the Addenda (if any) provided by KMB to the Tenderer;
- (b) examined all further information relevant to the risks, contingencies and other circumstances having an effect on its Tender Offer which is obtainable by the making of reasonable enquiries; and
- (c) satisfied itself as to the correctness and sufficiency of its Tender Offer including tendered prices or lump sums which will be deemed to cover the cost of complying with all obligations under the contract and of all matters and things necessary for the due and proper performance and completion of the supply of the relevant products in accordance with the contract.

3.5 Options

- 3.5.1 If the Tenderer wishes to make proposals for the application of any alternative component / system which it considers shall result in cost reduction or other advantages to KMB, the Tenderer shall offer to KMB the alternative as an option.
- 3.5.2 The Tenderer shall clearly declare whether the proposed option involve a material departure from the ROM Specifications Document of KMB and mark
- (a) on the relevant Tender Schedules and the Microsoft EXCEL file provided by KMB, the component in question and the relevant cost variance and/or benefit; and
 - (b) on the statement of compliance with the ROM Specifications Document the full specification of the option offered.
- 3.5.3 KMB shall have the sole discretion to accept or reject options offered.

3.6 Validity Period

The Tender Offer submitted by the Tenderer shall remain valid for a minimum period of twelve (12) calendar months from the Tender Closing Deadline and shall remain binding and be capable of acceptance at any time before the expiration of that period.

3.7 Notification of Tender Result

The selected Tenderer(s) shall receive a notification within twelve (12) months after the Tender Closing Deadline. Unsuccessful Tenderers shall be notified in writing.

3.8 Effect of Tender Submission

A Tenderer who submits a Tender Offer in response to this Tender Document shall be deemed to have accepted all terms and conditions as stipulated in this Tender Document, and to warrant that

- (a) the Tenderer has the necessary resources, experience, expertise and capacity to supply of the relevant products in accordance with the Conditions of Contract mentioned in this Tender Document; and
- (b) all the statements, representations, claims and assertions made in its Tender Offer are true and correct.

3.9 Offers of Gratuities

The offer of advantage or other inducement by any person with a view to influencing acceptance of a proposal may be an offence under the Hong Kong Prevention Bribery Ordinance (Chapter 201) and such action will result in the rejection of the proposal.

3.10 Anti-collusion

Tenderers shall not communicate to any person other than KMB and/or LWB (as the case may be) the amount of any tender, adjust the amount of any tender by arrangement with any other person, make any arrangement with any other person about whether or not it or that other person should or should not tender or otherwise collude with any other person in any manner whatsoever in the tendering process. Any breach of or non-

compliance with this clause by the Tenderer shall, without affecting the Tenderer's ability for such breach rules and laws or non-compliance, invalidate its tender.

4. Information required from the Tenderer

The Tenderer must complete the Form of Tender and return it with signature as part of **Tender Package B**.

4.1 Tender Schedules to be completed and submitted by the Tenderer

| No. | Title | To be included in |
|------|---|-------------------|
| TS-1 | Statement of Compliance – Conditions of Contract | Package B |
| TS-2 | Statement of Compliance – ROM Specifications Document | Package B |
| TS-3 | System Hardware Technical Details Sheet | Package B |
| TS-4 | Price Schedule | Package A |
| TS-5 | Implementation Schedule | Package B |
| TS-6 | Specific / Add-value Feature and Limitation of Tender offer | Package B |
| TS-7 | Warranty Schedule | Package B |
| TS-8 | Spares Schedule | Package B |
| TS-9 | Corporate Responsibilities Schedule | Package B |

4.2 Other information to be completed and submitted by the Tenderer

| No. | Title | To be included in |
|-----|--|-------------------|
| 1 | Latest Financial Report | Package B |
| 2 | Company Profile (including Certificate of Incorporation and Business Registration Certificate) | Package B |
| 3 | Relevant Project Experience | Package B |
| 4 | Hardware Specification and Data Sheet | Package B |

FORM OF TENDER

Tender Reference:
2013/SUB/TEN/0038

Tender Closing Deadline:
[8 November 2013]
10:00 AM (HKSAR Time)

To: The Kowloon Motor Bus Company (1933) Limited ("KMB")

In consideration that KMB would consider the Tender Offer submitted by us in response to KMB's captioned Tender Document (the "Tender Document"):

1. We hereby confirm that:
 - (a) we have read and fully understand the Tender Document, including the terms and conditions stated in clause 3 of the Tender Document; and
 - (b) in response to the Tender Document, we hereby submit our Tender Offer to KMB.
2. We shall meet the obligations as described in the Tender Document on the basis set out in our Tender Offer.
3. We warrant to KMB that:
 - (a) we have the necessary resources, experience, expertise and capacity to supply the goods and services as described in the Tender Document; and
 - (b) all the statements, schedules, representations, claims and assertions made in our Tender Offer are true, accurate and not misleading.
4. We fully understand and agree that:
 - (a) KMB shall not be responsible for any cost or expense incurred by us in connection with or arising from the preparation of our Tender Offer or subsequent submissions or representations to KMB; and
 - (b) KMB is not bound to accept the lowest price tender or any tender and KMB reserves the rights to conduct negotiations with the shortlisted parties after tender evaluation to finalize the supply contract as it deems appropriate.
5. We undertake to KMB that our Tender Offer, including all the completed Tender Schedules and submitted information, shall remain valid and binding upon us for acceptance for a period of twelve (12) calendar months from the Tender Closing Deadline specified in the Tender Document or as otherwise specified from time to time by KMB (as the case may be).
6. If our Tender Offer is accepted, we agree to enter into a contract with KMB and LWB in respect of the design, development, manufacture, supply, delivery, installation, test and commissioning for the Real-time Operations Management System of the relevant products stipulated in clause 6 based on the Conditions of Contract stipulated in clause 5 the Tender Document and the Tender Schedules submitted in our Tender Offer to KMB.

Signed by:

Company name: _____

Representative's name
and title: _____

Signature with chop: _____

Date: _____

Tender Schedule TS-1

Statement of Compliance – Conditions of Contract

The Conditions of Contract is provided by KMB to the Tenderer separately in Microsoft WORD file format.

The Tenderer must state below any areas of non-compliance, in sequence, and its position in relation to any requirement of the Conditions of Contract where the Tenderer considers that it does not comply within its Tender Offer. The Tenderer shall state its explanation as to the reason for each of the non-compliance. Please insert "Nil" in the blanks for full compliance.

To: The Kowloon Motor Bus Company (1933) Limited ("KMB")

We, _____ (*name of the Tenderer*)
undertake to KMB that our Tender Offer submitted to KMB in response to this Tender Document fully complies with each and every requirement of the Conditions of Contract with the exception of the departures listed below.

Conditions of Contract stipulated in Clause 5 of this Tender Document

| Clause No. and Clause Title | Sub-clause No. (if applicable) | Non-compliance and Explanation |
|--------------------------------|-----------------------------------|--------------------------------|
| | | |
| | | |
| | | |
| | | |

Name of Tenderer

Authorized Signature & Chop

* Please use supplementary sheets if required.

Tender Schedule TS-2

Statement of Compliance – ROM Specifications Document

The ROM Specifications Document is provided by KMB to the Tenderer separately in Microsoft WORD file format.

The Tenderer shall detail its compliance to each requirement stipulated in the ROM Specifications Document of KMB with clear reference to each individual clause number by completing the table below. The Tenderers must submit a response to each individual clause. A broad statement of compliance will not be accepted.

To: The Kowloon Motor Bus Company (1933) Limited ("KMB")

We, _____ (*name of the Tenderer*)
undertake to KMB that our Tender Offer submitted to KMB in response to this Tender Document fully complies with each and every requirement stipulated in the ROM System Specifications Document.

The Tenderer's proposal shall describe the solution proposed, the system design and how the system will be implemented. Topics shall include, without limitation, system architecture, technologies adopted, specification of proposed computing equipment (including driver console), system quality description, performance and reliability description, documentation and training, project team structure and implementation plan, and such other topics which the Tenderer would like to draw to the attention of KMB.

ROM Specifications Document stipulated in Clause 6 of this Tender Document

| Clause No. | Sub-clauseNo. (if applicable) | Compliance status (Comply / Not comply) | Tenderer's proposal |
|--|-------------------------------|---|---------------------|
| Part II: Introduction and Scope of Work | | | |
| 1 | 1.1-1.5 | | |
| 2 | 2.1-2.2 | | |
| Part III: Functional Requirements | | | |
| 1.1 | 1.1.1 | | |
| | 1.1.2 | | |
| | 1.1.3 | | |
| | 1.1.4 | | |
| | 1.1.5 | | |

| | | | |
|-----|---------------|--|--|
| | 1.1.6 | | |
| | 1.1.7 | | |
| | 1.1.8 | | |
| | 1.1.9 | | |
| | 1.1.10 | | |
| 1.2 | 1.2.1.a.1 | | |
| | 1.2.1.a.2 | | |
| | 1.2.1.a.3 | | |
| | 1.2.1.a.4 | | |
| | 1.2.1.a.5 | | |
| | 1.2.1.a.6 | | |
| | 1.2.1.a.7 | | |
| | 1.2.1.b.1 | | |
| | 1.2.1.b.2 | | |
| | 1.2.1.c.1 | | |
| | 1.2.1.c.2 | | |
| | 1.2.1.c.3 | | |
| | 1.2.1.d.1 | | |
| | 1.2.1.d.2 | | |
| | 1.2.1.e.1.i | | |
| | 1.2.1.e.1.ii | | |
| | 1.2.1.e.2.i | | |
| | 1.2.1.e.2.ii | | |
| | 1.2.1.e.2.iii | | |
| | 1.2.1.e.2.iv | | |
| | 1.2.2.a | | |
| | 1.2.2.b | | |
| | 1.2.2.c | | |
| | 1.2.2.d | | |
| | 1.2.3.a | | |

| | | | |
|-----|-----------|--|--|
| | 1.2.3.b | | |
| | 1.2.4.a.1 | | |
| | 1.2.4.a.2 | | |
| | 1.2.4.b.1 | | |
| | 1.2.4.b.2 | | |
| | 1.2.4.b.3 | | |
| | 1.2.4.b.4 | | |
| | 1.2.4.b.5 | | |
| | 1.2.5.a | | |
| | 1.2.5.b | | |
| | 1.2.6.a | | |
| | 1.2.6.b | | |
| 1.3 | 1.3.1.a | | |
| | 1.3.1.b | | |
| | 1.3.1.c | | |
| | 1.3.2 | | |
| | 1.3.3 | | |
| | 1.3.4 | | |
| 2.1 | 2.1.1.a | | |
| | 2.1.1.b | | |
| | 2.1.1.c | | |
| | 2.1.2.a | | |
| | 2.1.2.b | | |
| | 2.1.2.c | | |
| | 2.1.2.d | | |
| | 2.1.2.e | | |
| | 2.1.3.a | | |
| | 2.1.3.b | | |
| | 2.1.3.c | | |
| | 2.1.3.d | | |

| | | | |
|--|---------|--|--|
| | 2.1.3.e | | |
| | 2.1.3.f | | |
| | 2.1.3.g | | |
| | 2.1.3.h | | |
| Part IV. External Interface Requirements | | | |
| 1 | 1.1 | | |
| | 1.2 | | |
| | 1.3 | | |
| | 1.4 | | |
| | 1.5 | | |
| | 1.5 | | |
| | 1.7 | | |
| | 1.8 | | |
| | 1.9 | | |
| | 1.10 | | |
| | 1.11 | | |
| 2 | 2.1 | | |
| | 2.2 | | |
| | 2.3 | | |
| | 2.4 | | |
| | 2.5 | | |
| | 2.6 | | |
| 3 | 3.1 | | |
| | 3.2 | | |
| | 3.3 | | |
| Part V. System Hardware & Software Requirements | | | |
| 1.1 | 1.1.1 | | |
| | 1.1.2 | | |
| 1.2 | 1.2.1 | | |
| | 1.2.2 | | |
| 1.3 | 1.3.1 | | |

| | | | |
|---|--------|--|--|
| | 1.3.2 | | |
| 1.4 | 1.4.1 | | |
| | 1.4.2 | | |
| | 1.4.3 | | |
| 1.5 | 1.5.1 | | |
| | 1.5.2 | | |
| | 1.5.3 | | |
| | 1.5.4 | | |
| 1.6 | 1.6.1 | | |
| 1.7 | 1 to 9 | | |
| 2 | 2.1 | | |
| | 2.2 | | |
| 3 | 3.1 | | |
| | 3.2 | | |
| | 3.3 | | |
| | 3.4 | | |
| | 3.5 | | |
| Part VI: System Quality Requirements | | | |
| 1 | 1.1 | | |
| | 1.2 | | |
| | 1.3 | | |
| | 1.4 | | |
| | 1.5 | | |
| | 1.6 | | |
| 2 | 2.1 | | |
| | 2.2 | | |
| | 2.3 | | |
| | 2.4 | | |
| | 2.5 | | |
| 3 | 3.1 | | |
| | 3.2 | | |

| | | | |
|---|-----|--|--|
| | 3.3 | | |
| | 3.4 | | |
| | 3.5 | | |
| 4 | 4.1 | | |
| | 4.2 | | |
| | 4.3 | | |
| | 4.4 | | |
| | 4.5 | | |
| 5 | 5.1 | | |
| | 5.2 | | |
| | 5.3 | | |
| 6 | 6.1 | | |
| | 6.2 | | |
| | 6.3 | | |
| | 6.4 | | |
| | 6.5 | | |
| | 6.6 | | |
| | 6.7 | | |
| | 6.8 | | |
| | 6.9 | | |
| 7 | 7.1 | | |
| | 7.2 | | |
| Part VII. Performance and Reliability Requirements | | | |
| 1 | 1.1 | | |
| | 1.2 | | |
| | 1.3 | | |
| | 1.4 | | |
| | 1.5 | | |
| | 1.6 | | |
| | 1.7 | | |
| 2 | 2.1 | | |

| | | | |
|---|--------|--|--|
| | 2.2 | | |
| | 2.3 | | |
| | 2.4 | | |
| | 2.5 | | |
| | 2.6 | | |
| | 2.7 | | |
| Part VIII: Maintenance & Supporting Tools Requirements | | | |
| 1 | | | |
| 2 | 1 to 4 | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| Part IX: Documentation and Training Requirements | | | |
| 1 | 1.1 | | |
| | 1.2 | | |
| | 1.3 | | |
| | 1.4 | | |
| | 1.5 | | |
| | 1.6 | | |
| | 1.7 | | |
| | 1.8 | | |
| | 1.9 | | |
| | 1.10 | | |
| | 1.11 | | |
| | 1.12 | | |
| 2 | 2.1 | | |
| | 2.2 | | |
| 3 | 1 to 6 | | |
| Part X: Implementation Plan and Major Milestones | | | |
| 1 | 1.1 | | |
| | 1.2 | | |

| | | | |
|---|---------|--|--|
| 2 | 2.1 | | |
| | 2.2 | | |
| | 2.3 | | |
| | 2.4.1 | | |
| | 2.4.2.a | | |
| | 2.4.3.b | | |
| | 2.5 | | |
| 3 | 3.1 | | |
| | 3.2 | | |
| | 3.3 | | |
| | 3.4 | | |
| 4 | 4.1 | | |
| | 4.2.1 | | |
| | 4.2.2 | | |
| | 4.2.3 | | |

 Name of Tenderer

 Authorized Signature & Chop

* Please use supplementary sheets if required.

Tender Schedule TS-3

System Hardware Technical Details Sheet

The Tenderer shall provide KMB with the technical details of its product(s) to be offered in response to this Tender Document.

The Tenderer shall quote prices in Hong Kong Dollars in the Tender Schedule TS-4 (other currencies are not acceptable) and provide deliverable details for all system hardware as listed in this Tender Schedule.

To: The Kowloon Motor Bus Company (1933) Limited ("KMB")

We, _____ (*name of the Tenderer*) warrant to KMB that all equipment provided by us must be fit for the purpose and must not be obsolete or known to be phasing-out materials, equipment and/or technologies. We further undertake that if during the design phases, there exists any latest technology which better fit for the purpose of the equipment, we shall forthwith submit written proposal(s) to KMB proposing all necessary amendments to the design and specification of the above proposed hardware making use of such latest technologies in the equipment and upon KMB's approval of such written proposal(s). We shall provide the equipment in accordance with such proposal(s) at no additional cost to KMB, and at no compromise of any specification, quality and performance of the submitted design already endorsed by KMB and without any claim against KMB on or in connection with any abortive and/or additional designs as a result thereof.

| Technical Details Sheet Item | | Details of Deliverables |
|------------------------------------|---|-------------------------|
| A. Technical Details of ROM | | |
| 1 Driver Console | | |
| 1.1 | Hardware brand name and model | |
| 1.2 | Brief specification | |
| | a. CPU with speed | |
| | b. Operating system | |
| | c. Memory type & size (industrial grade or not) | |
| | - RAM | |
| | - Flash | |
| | - Others (specify) | |
| | d. I/O interface | |
| | e. Speakers | |
| | f. Microphone | |
| | g. 4G modem | |
| 1.3 | Dimensions in cm | |
| 1.4 | Weight in gram | |
| 1.5 | Power requirement | |
| 1.6 | Mounting method | |
| 1.7 | Average life | |
| 1.8 | Built-in features | |
| 1.9 | Industrial standard | |
| 1.10 | Operating environment | |
| 1.11 | Mean time between failure | |
| 1.12 | Software development tools | |
| 1.13 | Protocol | |
| 1.14 | Data capacity | |
| 1.15 | Security/ authentication | |

| Technical Details Sheet Item | Details of Deliverables |
|---|-------------------------|
| 1.16 Brand name and model of card reader / writer | |
| 1.17 Monitor type and size | |
| 1.18 Other information | |
| 2 Voice (OCS) | |
| 2.1 Production Machine | |
| 2.1.1 Hardware brand name and model | |
| 2.2.2 Brief specification | |
| a. CPU with speed | |
| b. Operating system | |
| c. Memory type & size | |
| d. I/O interface | |
| e. Other features | |
| 2.1.3 Dimensions in cm | |
| 2.1.4 Weight in gram | |
| 2.1.5 Power requirement | |
| 2.1.6 Mounting method | |
| 2.1.7 Average life | |
| 2.1.8 Built-in features | |
| 2.1.9 Industrial standard | |
| 2.1.10 Operating environment | |
| 2.1.11 Mean time between failure | |
| 2.1.12 Software development tools | |
| 2.1.13 Protocol | |
| 2.1.14 Data capacity | |
| 2.1.15 Security/ authentication | |
| 2.1.16 Monitor type and size | |
| 2.1.17 Other information | |
| 2.2 Development Machine | |
| 2.2.1 Hardware brand name and model | |
| 2.2.2 Brief specification | |
| a. CPU with speed | |
| b. Operating system | |
| c. Memory type & size | |
| d. I/O interface | |
| e. Others | |
| 2.2.3 Hard disk capacity | |
| 2.2.4 Data capacity | |
| 2.2.5 Software development tools | |
| 2.3 Disaster Recovery Machine | |
| [Tenderer to insert technical details of others supplied machines, if required] | |
| 3 Web server (OCS) | |
| 3.1 Production machine | |
| 3.1.1 Hardware brand name and model | |
| 3.1.2 Brief specification | |
| a. CPU with speed | |
| b. Operating system | |
| c. Memory type & size | |
| d. I/O interface | |
| e. Others | |
| 3.1.3 Dimension in cm | |
| 3.1.4 Weight in gram | |
| 3.1.5 Hard disk capacity | |
| 3.1.6 Data capacity | |
| 3.1.7 Software tools | |

| Technical Details Sheet Item | Details of Deliverables |
|--|-------------------------|
| 3.1.8 Protocol 3.2 Disaster Recovery Machine 3.2.1 Hardware brand name and model 3.2.2 Brief specification a. CPU with speed b. Operating system c. Memory type & size d. I/O interface 3.2.3 Dimensions in cm 3.2.4 Weight in gram 3.2.5 Hard disk capacity 3.2.6 Data capacity 3.2.7 Software development tools 3.2.8 Other software used 3.2.8 Security/authentication 3.2.9 Protocol 3.3 Development Machine 3.3.1 Hardware brand name and model 3.3.2 Brief specification a. CPU with speed b. Operating system c. Memory type & size d. I/O interface 3.3.3 Hard disk capacity 3.3.4 Data capacity 3.3.5 Software development tools 3.3.6 UPS (not less than 30 min.) 3.3.7 Other software used 4. App-Server / Map Server and Messaging Server 4.1 Production machine 4.2 Development machine [Tenderer to insert technical details of others supplied machines, if required] 5 Backup Device 5.1 Backup equipment brand name and model a. Backup speed b. Data storage size | |

Name of Tenderer

Authorized Signature & Chop

* Please use supplementary sheets if required.

Tender Schedule TS-4

Price Schedule

The Tenderer shall fill out this Tender Schedule in the Microsoft EXCEL file separately provided by KMB, and encrypt the quotation data to create a text file by using the built in macro functions. The encrypted quotation text file generated for Tender Schedule TS-4 shall form the **Tender Offer Package A**.

Price Terms:

Currency: Hong Kong Dollars (Other currencies are not acceptable.)

DAP KMB Unit Price: Delivered At Place - KMB designated site(s), including all costs for delivery to KMB's designated site(s) in the HKSAR.

Tender Schedule TS-5

Implementation Schedule

The Tenderer shall propose the anticipated Dates of Completion for each activity correspondingly together with a bar chart type master programme showing all required activities on both OCS and DCS for tender assessment in accordance with the referenced milestone dates as set out below.

The required Dates of Completion of milestone activities are listed as follow:

| Milestone Activities | End Date | | Remark |
|---|-------------|-------------|--|
| | OCS | DCS | |
| 1. Project Plan Submission | 28-Feb-2014 | | |
| 2. User requirements Confirmation | 28-Feb-2014 | | |
| 3. System Design | 29-Mar-2014 | | |
| 4. System Integration Test (Phase 1 pilot run) | 30-Aug-2014 | -- | Phase 1 pilot run: all OCS functions except those interfacing with DCS |
| 5. Engineering Prototype | -- | 30-Aug-2014 | |
| 6. Production Prototype | -- | 30-Sep-2014 | |
| 7. User Acceptance Test (Phase 1 pilot run) | 15-Oct-2014 | -- | |
| 8. Training for pilot run (Phase 1 pilot run) | 15-Oct-2014 | -- | |
| 9. Laboratory Test and Certification | -- | 31-Oct-2014 | |
| 10. Pilot run (Phase 1) Completion | 11-Dec-2014 | | |
| 11. System Integration Test (Phase 2) | 31-Oct-2014 | | Phase 2 pilot run: 30 buses installed with driver console |
| 12. User Acceptance Test (Phase 2) | 30-Nov-2014 | | |
| 13. Training for pilot run (Phase 2) | 30-Nov-2014 | | |
| 14. Installation for pilot run (Phase 2) run (30 buses) | -- | 31-Dec-14 | |
| 15. Pilot run (Phase 2) Completion | 31-Jan-2015 | | |

| | | | |
|--|-------------|-------------|--|
| 16. Training for pilot run (Phase 3) | 31-Jan-2015 | | Phase 3 pilot run: 220 buses installed with driver console |
| 17. Installation for pilot run (190 buses) completion | -- | 9-Apr-2015 | |
| 18. Pilot run (Phase 3) Completion | 30-Apr-2015 | | |
| 19. Training for full fleet Completion | 31-Jul-2015 | | |
| 20. Installation Phase 1 – 500 buses installed and commissioned | -- | 31-Aug-2015 | |
| 21. Installation Phase 2 – 1,000 buses installed and commissioned | -- | 31-Dec-2015 | |
| 22. Installation Phase 3 – 1,280 buses* installed and commissioned | -- | 31-Mar-2016 | * Total no. of buses to be confirmed |
| 23. Supply and delivery of 150 sets of Driver Console | | 31-Mar-2016 | Spare driver consoles |
| 24. Project Completion | 30-Jun-2016 | | |

Name of Tenderer

Authorized Signature & Chop

* Please use supplementary sheets if required

Tender Schedule TS-6**Specific / Add-value Feature and Limitation of Tender offer**

The Tenderer shall clearly mark in this schedule other value added options, special features and limitation come with its tender offer in response to this Tender Document.

Name of Tenderer

Authorized Signature & Chop

* Please use supplementary sheets if required.

Tender Schedule TS-7**Warranty Schedule**

The Tenderer shall specify the warranty offered to KMB as part of its Tender Offer in response to this Tender Document.

[OCS - Software]

| Item | Quot Code or Ref no. (if any) | Item description | Warranty | Remark |
|------|-------------------------------------|------------------|----------|--------|
| | | | | |
| | | | | |
| | | | | |

[OCS - Hardware]

| Item | Quot Code. or Ref no. (if any) | Item description | Warranty | Remark |
|------|--------------------------------------|------------------|----------|--------|
| | | | | |
| | | | | |
| | | | | |

[DCS - Software]

| Item | Quot Code. or Ref no. (if any) | Item description | Warranty | Remark |
|------|--------------------------------------|------------------|----------|--------|
| | | | | |
| | | | | |
| | | | | |

The Kowloon Motor Bus Company (1933) Limited

Tender Reference: 2013/SUB/TEN/0038

[DCS - Hardware]

| Item | Quot Code. or Ref no. (if any) | Description | Warranty | Remark |
|------|--------------------------------------|-------------|----------|--------|
| | | | | |
| | | | | |
| | | | | |

Name of Tenderer

Authorized Signature & Chop

* Please use supplementary sheets if required.

Tender Schedule TS-8**Spares Schedule**

The Tenderer shall quote a 5-year price package for the major ROM hardware components as below,

| Quot. Code | Item | Part No. | Description | Fixed Unit Price (HKD) |
|---------------|------|----------|-------------|------------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Price Terms:

Currency: Hong Kong Dollars (Other currencies are not acceptable.)

DAP KMB Unit Price: Delivered At Place - KMB designated site(s), including all costs for delivery to KMB's designated site(s) in the HKSAR.

 Name of Tenderer

 Authorized Signature & Chop

* Please use supplementary sheets if required.

Tender Schedule TS-9**Corporate Responsibilities Schedule**

The Tenderer shall provide a brief account on its up-to-date status of the following:

- (1) The Tenderer's awareness on
 - (a) environmental care, health and safety, and
 - (b) the prevention of use of forced labour and child labour;
 - (2) Measures taken by the Tenderer to check compliance of its key subcontractors / suppliers with its standards on the above points (1)(a) and (1)(b);
 - (3) The Tenderer's major social controversies, fines or settlements related to subcontractor / supplier activities.
-

Name of Tenderer

Authorized Signature & Chop

* Please use supplementary sheets if required.

5. Conditions of Contract

- 5.1 The successful Tenderer (the "Contractor" as in the Conditions of Contract) shall enter into a Formal Contract with KMB and/or LWB based on the terms and conditions stated in Conditions of Contract which are provided separately by KMB in Microsoft WORD file format.
- 5.2 The Tenderer shall provide KMB with statements of compliance against each of the Conditions of Contract mentioned in Clause 3 [see details in Tender Schedule TS-1] upon Tender Offer submission.

6. ROM Specifications Document

- 6.1 The ROM Specifications Document of KMB is provided to Tenderer separately in Microsoft WORD file format.
- 6.2 The Tenderer shall provide KMB with statements of compliance against each of the ROM Specifications Document mentioned in Clause 3 [see details in Tender Schedules TS-2] upon Tender Offer submission.

- END -

From: Evan Auyang DMD
Sent: Tuesday, October 29, 2013 11:23 AM
To: Catherine Yip IT
Cc: James Louey CD; Eric Lee PUR; Alfred Yuen IT; Chi Man Ho HD; Alice Wong ODO
Subject: RE: ROM extension of tender closing date

Dear Catherine,

I support the team's recommendation on extension. We need to ensure that the most knowledgeable vendors (the ones that have asked for extensions are the ones with real actual experience on ROM) are included.

Tks.

Regards,
Evan Auyang
Deputy Managing Director
The Kowloon Motor Bus Company (1933) Ltd.

From: Catherine Yip IT
Sent: October 29, 2013 11:20 AM
To: Evan Auyang DMD
Cc: James Louey CD; Eric Lee PUR; Alfred Yuen IT; Chi Man Ho HD; Alice Wong ODO
Subject: ROM extension of tender closing date

Dear DMD,

All eight tenderers have attended pre-tender meetings. Three of them have requested to extend the tender closing date.

| Item | Common Queries Raised by Tenderer | Tenderers | | | | | | | |
|------|--|-----------|----|-----|-----------------------|--------------------------------|------|-----------------------|-------|
| | | Autotoll | HP | ICO | INIT | IVU | PCCW | Trapeze | Volvo |
| 1. | Tenderers considered ROM tender as a complicated package. There are many system interfaces and the scope of work includes bus installation which would require negotiation with local sub-contractor. Hence, request for extension of tender return due to lack of time for preparation. | | | | ✓ (extend 4 weeks) | ✓ (at least extend 3 weeks) | | ✓ (extend 4 weeks) | |

HPur and his team, HIT and myself met yesterday to discuss the issue. It was concluded that an extension of 4 weeks would be appropriate for the following reasons:

- (1) Overseas tenderers will not submit their proposals if there is insufficient preparation time
- (2) Based on the questions raised by the tenderers at the meeting, the team commented that only one or two local tenderers were well prepared. It is likely that local tenderers will send their requests for extension just a few days before the closing day

The consequences may result in re-tender if only one tenderer submits proposal.

We have thus drafted a new schedule:

| <u>Current</u> | <u>Propose</u> |
|--|---|
| Tender Issue Date: 11-Oct-2013 | Tender Issue Date: 11-Oct-2013 |
| 28-Oct: 1 st round tender queries close | 28-Oct: 1 st round tender queries close |
| 31-Oct: taskforce response deadline | 31-Oct: taskforce response deadline |
| 4-Nov: 1 st round queries distribution to tenderers | 4-Nov: 1 st round queries distribution |
| | 11-Nov: 2 nd round queries close |
| | 18-Nov: taskforce response deadline |
| | 20 Nov: 2 nd round queries distribution to tenderers |
| Tender Closing Date: 8-Nov-2013 | Revised Tender Closing Date: 6-Dec-2013 (i.e. 4 weeks extension from 8-Nov-2013) |
| Post-tender meeting: 18 to 22-Nov-2013 | 16-20/Dec/2013 |
| Recommendation to management: 6-Dec-2013 | 15-Jan-2014* *Due to Christmas and New Year holidays in December, the proposed evaluation period is 6 calendar weeks instead of 4. |
| | |
| Pilot run of OCC: 16/10/14 – 11/12/14 | 27/11/14 – 8/1/2015 |

If you have no comment on the proposed new schedule, Purchasing Dept will inform the tenderers for an extension of 4 weeks on tender closing date.

Thank you very much for your attention.

Thanks and regards,
Catherine Yip
Senior Manager, Information Systems
Information Technology Department

From: Virginia Lam PUR
Sent: Friday, December 13, 2013 4:46 PM
To: Catherine Yip IT; Chun Kin Chan SER; Terry Lo TR; Alice Wong ODO; Siu Hung Fung ST
Cc: Kelvin Yeung PUR
Subject: [URGENT] ROM: Tender Assessment
Importance: High

Dear Team,

Further to the four tenders received from Autotoll, INIT, Trapeze and Volvo, for technical proposal, trust you should all have a chance to review the proposal this week.

For financial part, both Kelvin and I are reviewing and clarifying with each tenderer for their quotes, requesting for breakdown on OCS and DCS, etc. Since next week already 16 Dec, we would like to invite you all to discuss on the follow items:

1. Selection of shortlisted tenderers
2. Acceptance criteria to KMB on ROM requirement (as you all know, we have various options in the tender), we would like to discuss and distinguish what are the must items in order to help for preparation of the price comparison and tender assessment
3. Post-tender queries to shortlisted tenderers
4. Post-tender interview dates and arrangement (whether in person? Or teleconference?)

Please advise by return your availability, aim for each next week.

Kelvin: please help to arrange with this meeting, thank you.

Best Regards,
Virginia Lam
Purchasing Department

From: Kelvin Yeung PUR
Sent: Thursday, January 02, 2014 11:09 AM
To: Catherine Yip IT; Chun Kin Chan SER; Terry Lo TR; Alice Wong ODO; Siu Hung Fung ST
Cc: Virginia Lam PUR
Subject: ROM: Post-tender meeting

Dear Team

As discussed, the 4 tenderers are invited to attend the captioned. Please find the schedules as below.

| Date & Time | Tenderer | Attendee | Venue | Remarks |
|-------------------------------------|----------|---|----------------------------|------------------------------------|
| 13 Jan 2014, 2:00pm – 3:30pm | Autotoll | <ul style="list-style-type: none"> • Don Chan • Owen Leung • Aileen Ng • Joanna Chan | 1201 conference room | In-person |
| 14 Jan 2014, 9:00am – 10:30am | INIT | <ul style="list-style-type: none"> • Paul Gwynn • Klaus Janke • Michael Kadisch • Keith Rowell • Suvi Hamunen | 1201 conference room | In-person |
| 14 Jan 2014, 11:30am – 1:00pm | Volvo | <ul style="list-style-type: none"> • Jeremy Knight • Emil Christiansen • Jose Talamantes • Amir Skangic • Victor H. Castillo | 1201 conference room | In-person & video conference |

We are still awaiting Trapeze's reply and have already sent it the reminders. Will keep you updated once it is confirmed.

Thank you for your attention.

Best regards,
 Kelvin Yeung
 Purchasing Department

Tender: Real-time Operations Management System ("ROM")

Tender Schedule TS-4 (Price Schedule)

Tender No.: 2013/SUB/TEN/0038

Price Schedule Analysis for ROM: OCS + DCS

| | Tenders | | | |
|--|--|---|---|--|
| | <u>Autotoll</u> (HK\$ 'Millions) | <u>INIT*</u> (HK\$ 'Millions) | <u>Trapeze</u> (HK\$ 'Millions) | <u>Volvo*</u> (HK\$ 'Millions) |
| Total for OCS (excl. Options): | | | | |
| Total for DCS (excl. Options): | | | | |
| Total Tender Price for ROM (OCS+DCS): | | | | |
| Tender Price Ranking: | | | | |

Definition

1. OCS refers Operations-Control Centre System, a backend system with servers.
2. DCS refers Driver Communication System, a two-way communication system with driver console units to be installed on all KMB/LWB buses with approx. quantity of 3,000.

Background

Tender Scope: The ROM comprises of two modules: OCS and DCS.
The main functions of ROM are to assist dispatchers from Operations Control Centres and Terminus Supervisors from Bus Termini to:

- (1) manage bus departures and bus trips;
- (2) handle special situations that cause disruptions to bus services; and
- (3) communicate with drivers, via voice, text and sound recordings for information and special messages that requires driver's attention and action.

***Remark:**

1. After cost breakdown of OCS and DCS received from Volvo dated 16-Dec, revised figures have been reflected above in red with total tender price remain the same.
2. For INIT, after clarification on POS conversion problem with IT and IA Depts, the quoted prize for INIT had been updated in red, however, further cost breakdown analysis is still on-going.
3. After further clarification on bundled quotes and contract options from Autotoll and Trapeze, the breakdown for both OCS and DCS have also been updated with the total tender price remain the same.

From: Catherine Yip IT
Sent: Wednesday, March 12, 2014 11:59 AM
To: Alice Wong ODO; Virginia Lam PUR; Siu Hung Fung ST; Chun Kin Chan SER; Terry Lo TR
Cc: Ivan Au PUR; Steve Ching PUR
Subject: RE: ROM: Invitation to pre-meeting: Presentation to SM on 13/3

Dear all,

Most updated one v4. Would Alice pls help to prepare a project and relevant files?
Virginia and I may be a bit late for the meeting. Pls go ahead for discussion if we are late.

Thanks and regards,
Catherine Yip
Senior Manager, Information Systems
Information Technology Department

From: Alice Wong ODO
Sent: Thursday, March 13, 2014 7:24 AM
To: Catherine Yip IT; Virginia Lam PUR; Siu Hung Fung ST; Chun Kin Chan SER; Terry Lo TR
Cc: Ivan Au PUR; Steve Ching PUR
Subject: RE: ROM: Invitation to pre-meeting: Presentation to SM on 13/3

Dear all,

Updated.

Regards,
Alice Wong
Tel [REDACTED]

From: Alice Wong ODO
Sent: Thursday, March 13, 2014 1:26 PM
To: Catherine Yip IT; Virginia Lam PUR; Siu Hung Fung ST; Chun Kin Chan SER; Terry Lo TR
Cc: Ivan Au PUR; Steve Ching PUR
Subject: RE: ROM: Invitation to pre-meeting: Presentation to SM on 13/3

Dear all,

Attached please find the final version for your record.

Regards,
Alice Wong
Tel: [REDACTED]



Real-time Operations Management System (ROM) Project Status Update

Date: 13 March, 2014

Time: 11:00 am

CONFIDENTIAL AND PROPRIETARY

Any use of this material without specific permission of The Kowloon Motor Bus Co. (1933) Ltd. is strictly prohibited.

Taskforce members

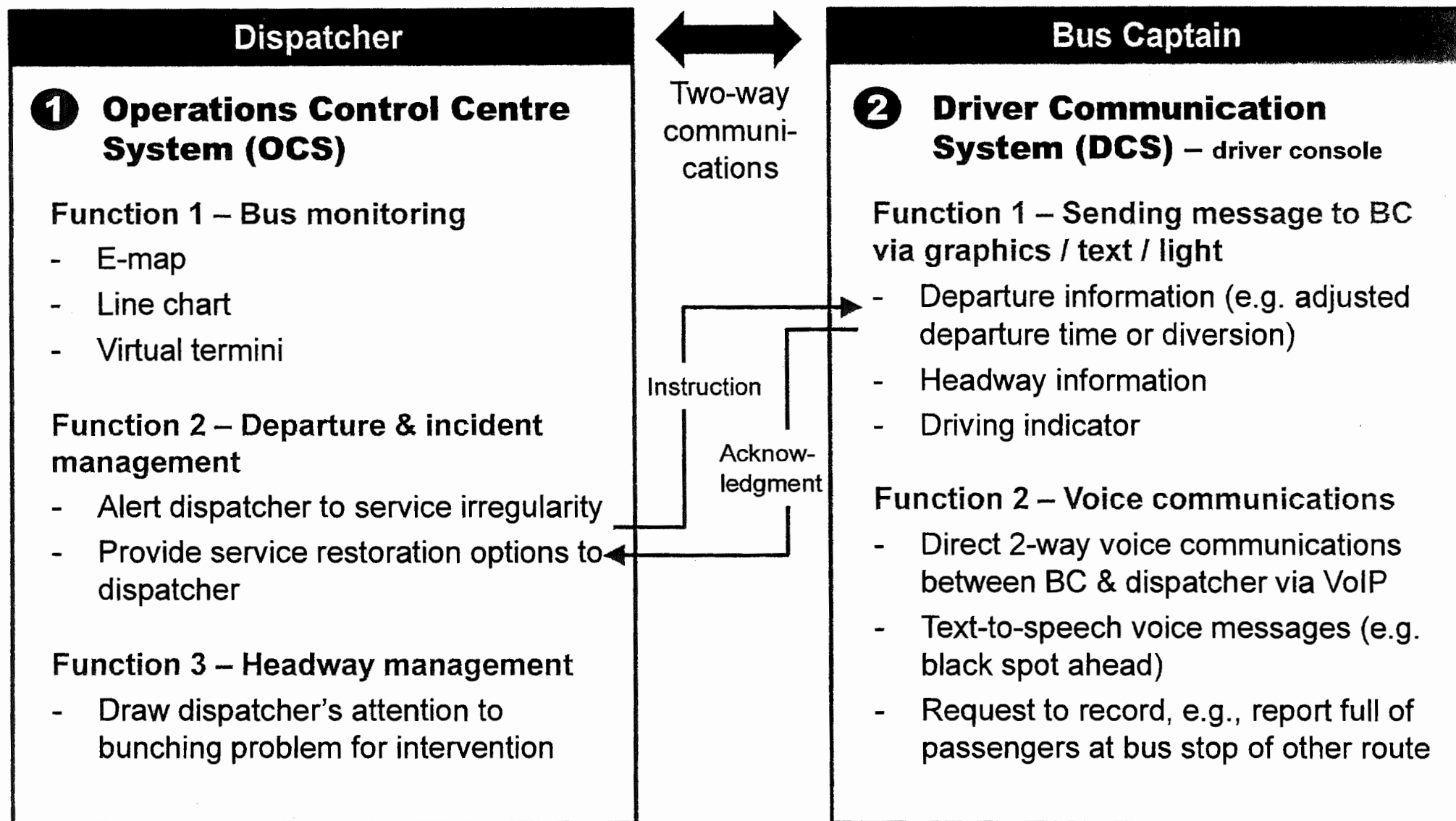
| | Staff | Title |
|------------|--|--|
| Purchasing | <ul style="list-style-type: none">• Virginia Lam | Assistant Manager |
| ITD | <ul style="list-style-type: none">• Catherine Yip | Senior Manager, Information Systems |
| Depots | <ul style="list-style-type: none">• Fung Siu Hung• Alice Wong | Depot GM, Shatin Depot Assistant Manager, Projects, ODO |
| Traffic | <ul style="list-style-type: none">• Terry Lo | Assistant Manager, Operations Projects |
| Service | <ul style="list-style-type: none">• CK Chan | Senior Engineer, Engineering Office |

Agenda

3.8

1. Review ROM tender progress and tender assessment
2. Review ROM tender progress and tender assessment
3. Cost and benefit analysis
4. The way forward

Overview of two major modules of ROM system



1. Overview of two major modules of ROM

2. Progress and gender assessment

3. Cost and benefit analysis

4. The way forward

Schedule of this tender

| Date | Schedule |
|-----------------------|---|
| July to Sept 2013 | Expression of Interest issued to 16 interested vendors |
| 10-Oct-2013 | Task Force confirmed to shortlist the 8 tenderers for tender |
| 11-Oct-2013 | KMB issued the tender document for the supply and installation of Real Time Operations Management System ("ROM") |
| 18-Oct to 25-Oct-2013 | Pre-Tender Meeting with 8 tenderers |
| 28-Oct-2013 | Tender enquiries deadline |
| 6-Dec-2013 | Tender closing deadline by 10:00 AM (Hong Kong Time) |
| 20-Dec-2013 | Task Force Meeting to review with shortlisted tenderers for post tender interview |
| 8-Jan-2014 | KMB issued post tender queries to shortlisted tenderers |
| 13-Jan to 17-Jan-2014 | Post tender interviews with Autotoll, INIT, Trapeze and Volvo |
| 7-Feb-2013 | Task Force Meeting to review the technical score card for both Operation Control System (OCS) and Driver Communication System (DCS) |
| 5-Mar-2013 | Consolidation of tender assessment and recommendation |

Tender assessment and evaluation

Commercial considerations (weighted 50%)

| | Autotoll | INIT | Trapeze | Volvo |
|------------------------------------|----------|------|---------|-------|
| 1) Price index (Max score = 40) | | | | |
| 2) Contract compliances | | | | |
| 3) Financial risks | | | | |

Weighted score

Tender assessment and evaluation

Technical considerations (weighted 50%)

| | Autotoll | INIT | Trapeze | Volvo |
|--|----------|------|---------|-------|
| 1) Tailor-made system | | | | |
| 2) Compliances to KMB requirements | | | | |
| 3) Make use of KMB's telematics onboard device | | | | |
| 4) Interfaces with KMB systems | | | | |
| 5) Handling of system changes after implementation | | | | |
| 6) Bus operations knowledge | | | | |
| 7) Retrofit experience on KMB buses | | | | |
| 8) Local support | | | | |

Weighted score

Conclusion

1. Autotoll obtained the highest total scores () on both commercial and technical side, which is higher than the second score ().
2. From commercial point of view:
 - Autotoll complied with most of critical contractual terms and accept on **provision of IP Rights** to KMB.
 - Autotoll also considered as the **lowest financial risk vendor** from the financial assessment by Accounts Department.
3. From technical point of view:
 - Autotoll is the only tenderer **offering a build from scratch solution**. As such, KMB's existing telematics onboard device can be used.
 - **Flexible and cost saving** for further system enhancements.
 - It has experience in **manufacturing driver consoles** and related system, and implementing a number of **map-based projects**. Feasibility in integrating with TD's Traffic Incident Management System is also an added advantage.
 - Weaknesses – It has **limited bus operations knowledge**.

Agenda

CONFIDENTIAL

3.8

1. Overview of two major modules of ROM
2. Review ROM tender progress and tender assessment

- 
4. The way forward

Benefits of OCS vs OCS & DCS for the years from 2014 to 2024 ^{3.8} (HK\$ million)

| | OCS | OCS & DCS |
|---|-----|-----------|
| Increase in operating cost | | |
| <ul style="list-style-type: none"> • Depreciation for the system • OCC setup / renovation • Staff costs • System repair & maintenance fee | | |
| Saving in operating costs | | |
| <ul style="list-style-type: none"> • Reduce staff cost • Reduce claims & repair cost due to accident (e.g. voice message to alert black spot or map dissemination to prevent wrong turn) • Saving from waybill paper | | |
| Revenue Increase | | |
| <ul style="list-style-type: none"> • Ridership increase due to departure & headway management <ul style="list-style-type: none"> ➢ Minimize the happening of bus bunching ➢ Ensure schedule adherence of fixed-departure routes ➢ Service restoration instruction from OCC | | |
| Net saving in operating costs before tax | | |

Other non-quantified benefits from DCS:

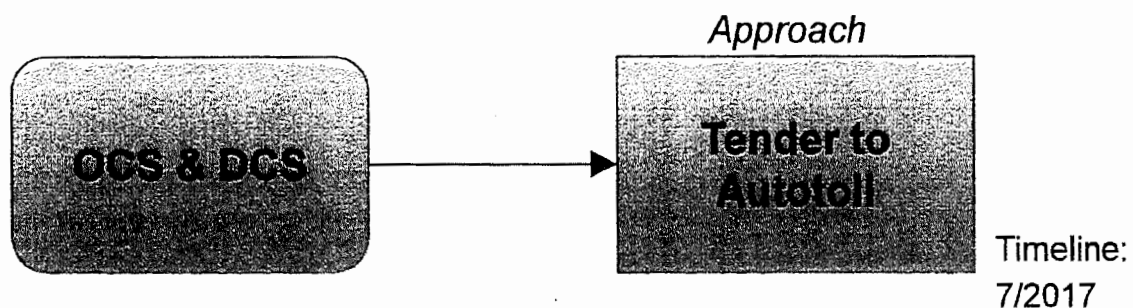
- Enable real-time communication with BCs for more dynamic and better timeliness in resources re-allocation
- BCs obtain information of parking location at terminus via DCS for better yard management
- BCs report spots of high demand via DCS to improve service and increase revenue
- BCs input statistics via DCS under un-attended operation to collect valuable statistics for planning & operational purposes
- BCs report bus problem via DCS to transmit details to Service Department for early preparation of maintenance
- Enable map dissemination to BCs in case of route diversion or when requested by captains to better efficiency & resource utilization

Revisit scope of the project

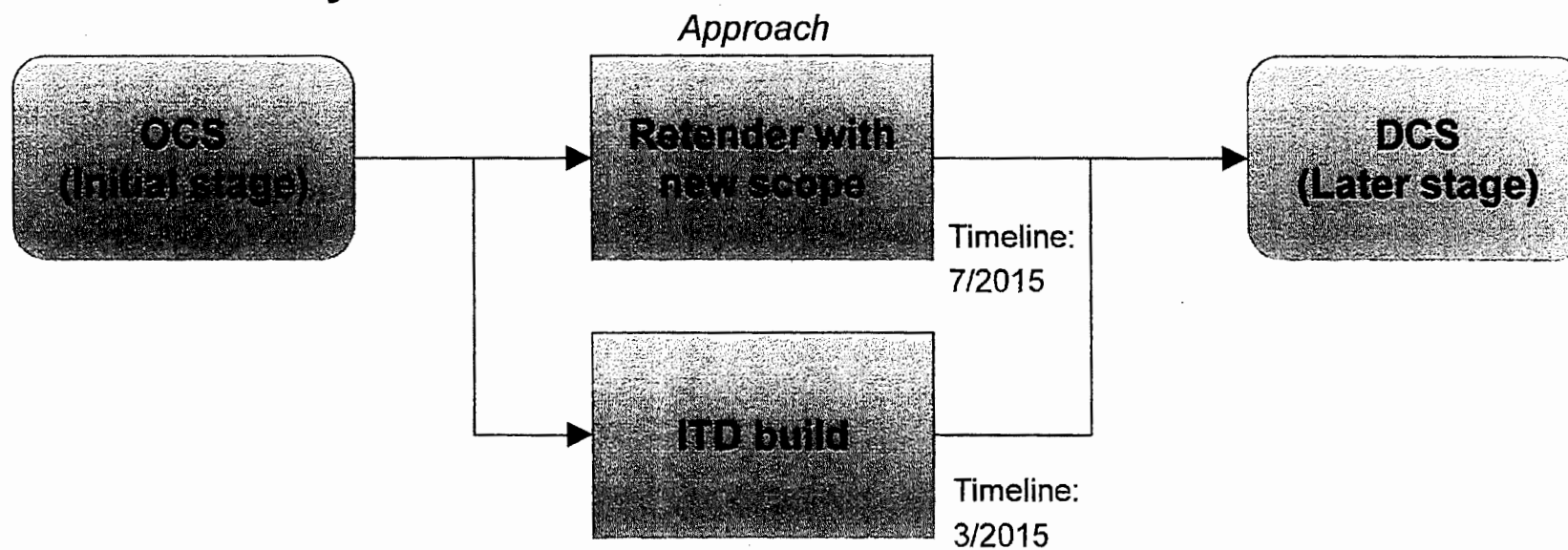
| | OCS | DCS |
|----------------------------|---|---|
| 1) Cost | Low | High (Installation of driver consoles on the whole fleet) |
| 2) Benefit | High | High |
| 3) Risks | Low (Crucial functions such as receiving data from bus and ETA are already in place) | High <ul style="list-style-type: none"> • No off-the-shelf driver console that suits our requirements is available • Bus captains are involved in the workflow change |
| 4) Implementation timeline | ~ 1 year | ~ 3 years |

One-off delivery vs phased-delivery

Option 1: One-off delivery



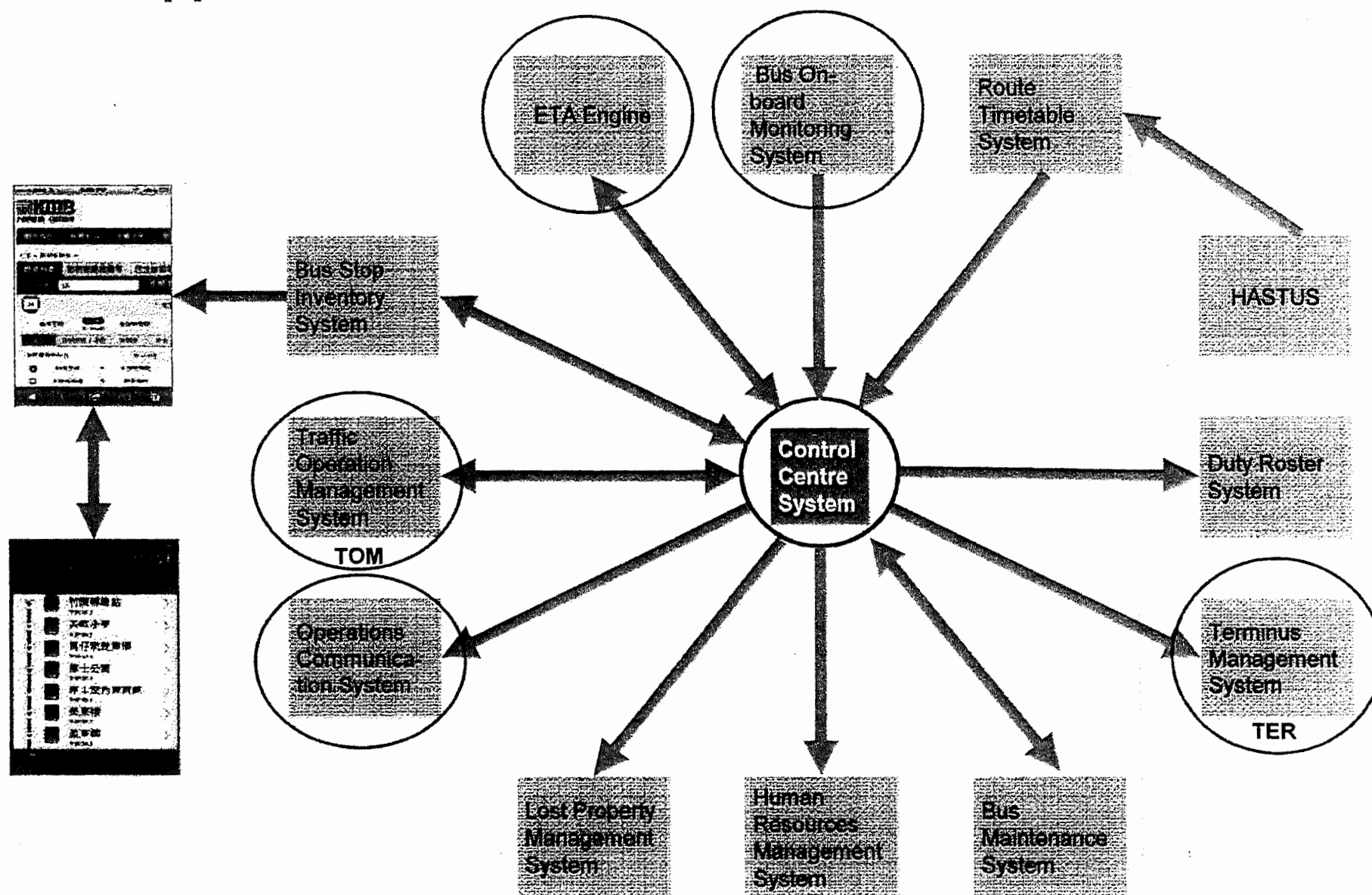
Option 2: Phased-delivery



Agenda

1. Overview of two major modules of ROM
2. Review ROM tender progress and tender assessment
3. Cost and benefit analysis

KMB IT application interfaces



ITD Build vs Retender option

| | ITD Build | Retender |
|---|--|---------------------------------------|
| 1) Bus operations knowledge | Extensive and KMB specific | No (from vendors contacted so far) |
| 2) Systems interfaces handling | Direct | Indirect |
| 3) Knowledge transfer (business & KMB systems) | N/A | ~ 2+ months |
| 4) Technology transfer after system implementation | Not required | Required |
| 5) Phased delivery | Feasible | Not desirable |
| 6) Truly proprietary system | Yes | Maybe |
| 7) System cost (hardware and software) | ~ 40% to 70% of retender cost (assumption of adding 2 contract developers) | NA |
| 8) Risk | Low | Medium |
| 9) Timeline | 3/2015 (1 st phase) | Tentative 7/2015 (full functional) |

Thank You

Balanced Score Card for tender assessment rating

Balanced Score Card for Real-time Operations Management System (ROM)

CONFIDENTIAL

Tender ref.: 2013/SUB/TEN/0038

(Marking Scheme prepared by Purchasing)

| Criteria | Rating | Autotoll | INIT | Trapeze | Volvo | PCCW | ICO | HP | IVU |
|---|--------|----------|------|---------|-------|------|-----|----|-----|
| A. Commercial | | | | | | | | | |
| 1 Tender Price | | | | | | | | | |
| ROM=OCS + DCS | | | | | | | | | |
| 2 # Compliance in Conditions of Contract (2 (comply); 1 (partial comply); 0 (non-comply)) | | | | | | | | | |
| a) Cl. 4.1 & 4.2 | | | | | | | | | |
| b) Cl. 5.4 | | | | | | | | | |
| c) Cl. 7.2 | | | | | | | | | |
| d) Cl. 15.2 | | | | | | | | | |
| e) Cl. 16.2 | | | | | | | | | |
| Maximum marks: 50 | | | | | | | | | |
| Total: | | | | | | | | | |
| 3 Risks | | | | | | | | | |
| a) Financial position (-0 (no risk), -1 (low risks), -3 (medium risks), -5 (high risks)) | | | | | | | | | |
| Total of A (after risk factors) | | | | | | | | | |
| B. Technical (Weighted Score: Summary of OCS (50%) + Summary of DCS (50%)) | | | | | | | | | |
| 1 Technical Score | | | | | | | | | |
| ** (refer to table of summary for OCS and DCS as stated below) | | | | | | | | | |
| Total of B (after risk factors) | | | | | | | | | |
| Total Score (A+B): | | | | | | | | | |

Remark: 2(a) Cl. 4.1 Bank guarantee/Cl. 4.2 Parent Company Guarantee; 2(b) Cl. 5.4 Liquidated damages; 2(c) Cl. 7.2 System warranty-10 yrs undertaking;
2(d) Cl. 15.2 Contractor's liability; and 2(e) Cl. 16.2 Insurance against Injury to Persons and Damage to Property

Balanced Score Card for OCS

Summary of Tender Assessment– Real-time Operations Management System (OCS) 7/2/2014

Operations Control Centre System (OCS)

(Marking Scheme prepared by the Technical Team)

| Vendor Name | Autotoll | INIT | Trapeze | Volvo | PCCW | ICO | HP | IVU |
|---|----------|------|---------|-------|------|-----|----|-----|
| Part 1: OCS (Total in Part 1: weighted 50% of ROM) | | | | | | | | |
| (a) Specification meets KMB's Functional Requirements Maximum Mark: 25 | | | | | | | | |
| (b) Specification meets KMB's Non-Functional Requirements Maximum Mark: 15 | | | | | | | | |
| (c) Proposed Solution Maximum Mark: 6 | | | | | | | | |
| (d) Other Value-added features Maximum Mark: 2 | | | | | | | | |
| (e) System Limitations Maximum Mark: 2 | | | | | | | | |
| Sub-total: | | | | | | | | |
| Risk Rating (-1 to -10)* | | | | | | | | |
| **Total of Part 1: | | | | | | | | |

*Project risks: -10 = highest risk; -1 = lowest risk

Project risks: (1) Able to complete the project (2) Able to meet project timeline (3) Able to integrate systems (OBD, KMB's systems/databases, Octopus system)

(4) Technical know-how

Balanced Score Card for DCS

Summary of Tender Assessment– Real-time Operations Management System (DCS) 7/2/2014

Driver Communication System (DCS)

(Marking Scheme prepared by the Technical Team)

| Vendor Name | Autotoll | INIT | Trapeze | Volvo | PCCW | ICO | HP | IVU |
|---|----------|------|---------|-------|------|-----|----|-----|
| Part 2: DCS (Total in Part 2: weighted 50% of ROM) | | | | | | | | |
| (a) Specification meets KMB's Functional Requirements Maximum Mark: 18 | | | | | | | | |
| (b) Specification meets KMB's Non-Functional Requirements Maximum Mark: 17 | | | | | | | | |
| (c) Proposed Solution Maximum Mark: 5 | | | | | | | | |
| (d) Proposed Product Maximum Mark: 5 | | | | | | | | |
| (e) Other Value-added features Maximum Mark: 3 | | | | | | | | |
| (f) System Limitations Maximum Mark: 2 | | | | | | | | |
| Sub-total: | | | | | | | | |
| Risk Rating (-1 to -10)* | | | | | | | | |
| **Total of Part 2: | | | | | | | | |

*Project risks: -10 = highest risk; -1 = lowest risk

Project risks: (1) Able to complete the project (2) Able to meet project timeline (3) Able to integrate with OBD (4) Able to integrate with automatic fare collection system (5) Able to manufacturing of brand new driver console (6) Technical know-how of on-board voice communication (TTS, VoIP)

From: Procurement
Sent: Wednesday, April 02, 2014 3:47 PM
To: owen.leung@autotoll.com.hk
Subject: <Autotoll> KMB Tender Ref: 2013/SUB/TEN/0038: Tender for The Real-time Operations Management System (ROM) Project

Dear Owen,

Thank you for your offer dated 6 December 2013 for the captioned Tender.

We regret to inform you that after rounds of review and evaluation of the received tender offers, KMB had decided not to award the contract for this project "Real-time Operations Management System" to any tenderer in this scope at this moment.

In this regard, we would like to thank you for all your effort put on this Tender submission. We look forward to working with you in coming projects soon.

Best Regards,
Virginia Lam
Purchasing Department | KMB
Tel.: [REDACTED]

From: Procurement
Sent: Wednesday, April 02, 2014 3:48 PM
To: shamunen@initag.com
Subject: <INIT> KMB Tender Ref: 2013/SUB/TEN/0038: Tender for The Real-time Operations Management System (ROM) Project

Dear Suvi,

Thank you for your offer dated 6 December 2013 for the captioned Tender.

We regret to inform you that after rounds of review and evaluation of the received tender offers, KMB had decided not to award the contract for this project "Real-time Operations Management System" to any tenderer in this scope at this moment.

In this regard, we would like to thank you for all your effort put on this Tender submission. We look forward to working with you in coming projects soon.

Best Regards,
Virginia Lam
Purchasing Department | KMB
Tel.: [REDACTED]

From: Procurement
Sent: Wednesday, April 02, 2014 3:49 PM
To: Hans.Blankestijn@trapezegroup.com
Subject: <Trapeze> KMB Tender Ref: 2013/SUB/TEN/0038: Tender for The Real-time Operations Management System (ROM) Project

Dear Hans,

Thank you for your offer dated 6 December 2013 for the captioned Tender.

We regret to inform you that after rounds of review and evaluation of the received tender offers, KMB had decided not to award the contract for this project "Real-time Operations Management System" to any tenderer in this scope at this moment.

In this regard, we would like to thank you for all your effort put on this Tender submission. We look forward to working with you in coming projects soon.

Best Regards,
Virginia Lam
Purchasing Department | KMB
Tel. [REDACTED]

From: Procurement
Sent: Wednesday, April 02, 2014 3:48 PM
To: emil.christiansen@volvo.com
Cc: V00047 <jeremy.knight@volvo.com>
Subject: <Volvo> KMB Tender Ref: 2013/SUB/TEN/0038: Tender for The Real-time Operations Management System (ROM) Project

Dear Emil,

Thank you for your offer dated 6 December 2013 for the captioned Tender.

We regret to inform you that after rounds of review and evaluation of the received tender offers, KMB had decided not to award the contract for this project "Real-time Operations Management System" to any tenderer in this scope at this moment.

In this regard, we would like to thank you for all your effort put on this Tender submission. We look forward to working with you in coming projects soon.

Best Regards,
Virginia Lam
Purchasing Department | KMB
Tel. [REDACTED]

The Kowloon Motor Bus Co. (1933) Ltd.

MEMORANDUM

To : Distribution

Date : 23 June 2014

**From : ROM Project Leader
Information Technology Department**

Ref. : MM/ADD/14007

Real-time Operations Management System (ROM) Project Status

Development of the ROM project was officially launched on 12 May 2014. Detail requirement collection and functional design are in progress. Project team targeted to finalise the user requirement specification by the end of June 2014 and release the first draft of System Proposal by the end of July 2014.

Should you have any queries, please feel free to contact me at [REDACTED].

Thank you for your attention.



Chung-lim Chan

Distribution

Operations Director
Head of Traffic Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
General Manager, Long Win Bus Co. Ltd.

cc Ms. Alice Wong (ODO Office)
Mr. Terry Lo (Traffic Department)
Mr. Yik-sing Kwok (Kowloon Bay Depot)
Mr. Ken Wong (Lai Chi Kok Depot)
Mr. Kelvin Yeung (Tuen Mun Depot)
Mr. Jeff Poon (Long Win Bus Co. Ltd.)
Ms. Catherine Yip (Head of Information Technology Department)
Mr. Michael Lee (Principal Systems Analyst, Information Technology Department)

The Kowloon Motor Bus Co. (1933) Ltd.
MEMORANDUM

To : Distribution

Date : 18 August 2014

**From : ROM Project Leader
 Information Technology Department**

Ref. : MM/ADD/14011

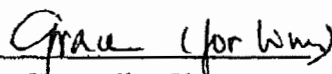
Real-time Operations Management System (ROM) Project Status

The Requirement Specification of ROM version 1.0 has been signed back from all users in July. Project Team has also worked out the first draft of ROM System Proposal with users in July.

In August, Project team and users will still be working on the System Proposal and target to finalise it before mid September.

Should you have any queries, please feel free to contact me at [REDACTED]

Thank you for your attention.


 Chung-lim Chan

Distribution

Operations Director
 Head of Traffic Department
 Senior Manager, Operations, Kowloon Bay Depot
 Senior Manager, Operations, Lai Chi Kok Depot
 General Manager, Shatin Depot
 General Manager, Tuen Mun Depot
 General Manager, Long Win Bus Co. Ltd.

cc Ms. Alice Wong (ODO Office)
 Mr. Terry Lo (Traffic Department)
 Mr. Yik-sing Kwok (Kowloon Bay Depot)
 Mr. Ken Wong (Lai Chi Kok Depot)
 Mr. Chun-ho Lo (Shatin Depot)
 Mr. Kelvin Yeung (Tuen Mun Depot)
 Mr. Jeff Poon (Long Win Bus Co. Ltd.)
 Ms. Catherine Yip (Head of Information Technology Department)
 Mr. Michael Lee (Principal Systems Analyst, Information Technology Department)

THE KMB INFORMATION TECHNOLOGY DEPARTMENT

SYSTEM REQUIREMENTS SPECIFICATION



For

REAL-TIME OPERATION MANAGEMENT SYSTEM

(ROM)

DOCUMENT NO.

KDP-ROM-RS001.0

| | Prepared by Project Team | Reviewed and Approved by Principal Systems Analyst |
|-----------|---|---|
| Name | CHAN CHUNG LIM | Michael Lee |
| Signature |  |  |
| Date | 3/7/2014 | 3/7/2014 |

Acknowledgement

The System Requirements Specification is prepared by the ROM Project Team of the Information Technology Department. Any query about the contents of this specification may be forwarded to

Mr. Chan Chung Lim (Project Leader)

Ext. [REDACTED]

Ms. Grace Woo (Assistant Project Leader)

Ext. [REDACTED]

We would like to take this opportunity to thank the following colleagues for their full support during user requirements collection:

Mr Fung Siu Hung (Shatin Depot)

Ms Alice Wong (OD Office)

Mr Terry Lo (Traffic Department)

Mr Yik Sing Kwok (KB Depot)

Mr Johnny Liu (KB Depot)

Mr Ken Wong (LCK Depot)

Mr Tony Wong (LCK Depot)

Mr Terrence Tam (ST Depot)

Mr Kelvin Yeung (TM Depot)

Mr Kenneth Ng (TM Depot)

Mr Kelvin Mak (Long Win)

Introduction

This System Requirements Specification (Document No. KDP-ROM-RS00.1) describes the requirements of the Real-Time Operation Monitoring System (ROM) collected from users.

Chapter 1 states the system goals and objectives and describes what the system is required to do to meet the system requirements. General requirement and performance expectation are also stated.

Chapter 2 lists out the system activities in more details. Specific goals and objectives, activity outlines, input/output requirements and general consideration of each activity are stated as a foundation for the design of the future system.

Users should read this document carefully and sign off to confirm that it is a formal statement of their requirements.

Due to very tight project schedule, the Project Team has to assume that users with no feedback by 4th July 2014 accept the System Requirements Specification and no change to the requirements will be handled thereafter.

Table of Contents

| | |
|--|-----------|
| 1. GENERAL OVERVIEW..... | 1 |
| 1.1 APPLICATION AREA GOALS AND OBJECTIVES..... | 1 |
| 1.2 SYSTEMS GOALS AND OBJECTIVES | 1 |
| 1.3 ACTIVITIES DEFINITIONS..... | 1 |
| 1.4 GENERAL CONSIDERATIONS..... | 1 |
| 1.5 GENERAL PERFORMANCE MEASUREMENT | 2 |
| 2. ACTIVITIES DESCRIPTION..... | 3 |
| 2.1 REAL-TIME BUS MONITORING..... | 3 |
| 2.2 DEPARTURE MANAGEMENT | 6 |
| 2.3 DIVERSION MANAGEMENT..... | 8 |
| 2.4 COMMUNICATION MANAGEMENT | 9 |
| GLOSSARY | 10 |

1. GENERAL OVERVIEW

1.1 Application Area Goals and Objectives

- Strengthen the dispatchers in handling bus service disruption
- Improve operational efficiency so as to provide the best bus service to the public
- Standardise the working procedure in daily bus operation

1.2 Systems Goals and Objectives

- Streamline the bus operation
- Ensure schedule adherence to elevate customer satisfaction
- Attain optimal resources utilisation

1.3 Activities Definitions

1.3.1 Real-time bus monitoring

Provide an overview of the operating status to dispatchers so that preventive and remedy actions can be taken in a timely manner

1.3.2 Departure management

Assist dispatchers in resources utilisation and departures regulation

1.3.3 Diversion management

Assist dispatchers in handling incidents which involve road diversion. It also provides a framework for incident management in future.

1.3.4 Communication management

Provide an efficient and convenient way for communication among bus captains, dispatchers, outdoor staff and other concerned parties

1.4 General Considerations

1.4.1 ROM will be running on 7 days x 24 hours basis.

1.4.2 ROM should be running in Control Centres and at some major termini.

1.4.3 User interface can be toggled between Chinese and English

1.4.4 User interface must be simple and straight-forward

1.4.5 ROM should be scalable so that future expansion can be carried out conveniently

1.4.6 Data security, accuracy and timeliness should be guaranteed in the system interface between ROM and KMB existing system

1.4.7 System design should cater for yard management which is to be handled by ROM in future

1.5 General Performance Measurement**1.5.1 Accuracy**

- System should ensure data accuracy and timeliness. No operational fault should be due to data inaccuracy or latency

1.5.2 Capacity

- System performance should not be hampered by 200% increase of normal transaction volume

1.5.3 Efficiency

- Average no. of buses managed by a dispatcher should be higher than the average no. of buses managed by a terminus supervisor

1.5.4 Quality

- System deployment should be transparent to end user
- Quick response time :
 - Simple updating function – under 5 seconds (e.g. modify a departure time)
 - Complicated updating functions – under 30 seconds (e.g. Automatic departure time regulation)
 - Simple enquiry functions – under 5 seconds
 - Complicated enquiry functions – under 10 seconds
 - Simple reports – under 10 seconds
 - Complicated reports – under 1 minute

1.5.5 Flexibility

- The system design should be able to handle mass route re-organisation under short notice
- The system should be able to run at control centre, terminus or office.

1.5.6 Security

- No unauthorised user can break into the system
- A user can only perform the tasks up to his/her authority
- All user activities should be traceable

1.5.7 Reliability

- No single point of failure
- Disaster recovery plan should be available and well-tested before production of the system

ROM Requirement Specification Activities Description

2. ACTIVITIES DESCRIPTION

2.1 Real-time Bus Monitoring

2.1.1 Goals and Objectives

2.1.1.1 To give dispatchers an overview of the bus operating status so that irregularity can be alerted and remedy action be taken in a timely manner

2.1.1.2 To maximize the capacity of dispatchers with the aid the monitoring functions

2.1.2 Scope and Boundaries

2.1.2.1 Enable users to view the current status of a set of buses, bus termini and bus stops on digital maps or on a line chart

2.1.2.2 The set of buses, bus termini and bus stops can be selected in a flexible and configurable way

2.1.2.3 Users should be able to conveniently switch on or off the information of a bus on map/line chart such as the bus number, running number, minute(s) ahead or behind schedule, the crew duty and bus captain operating the trip, speed etc

2.1.2.4 Users should be able to conveniently switch on or off the information of a bus terminus on map/line chart such as the ETA of each route of the terminus, the spare resources at the terminus etc

2.1.2.5 Users should be able to conveniently switch on or off the information of a bus stop on map/line chart such as last arrival time and ETA of each route etc

2.1.2.6 System should be able to alert the buses going off-track of its operating route

2.1.3 Input requirements

Spatial data

2.1.3.1 Base maps covering at least the following layers:

- Buildings
- Coastline
- Country park
- District
- Estate
- Flyover
- Football playground
- Footbridge
- Railway stations and lines (including tram and peak tram)
- Park
- Pavement
- Pavement barrier
- Pier
- Placename & village point
- Swimming pool
- Reservoir
- Road centreline and road network
- Sea
- Street

ROM Requirement Specification Activities Description

- Tennis court
- Tunnel
- Traffic rules

2.1.3.2 ROM users should be able to maintain spatial data in ROM including but may not be limited to :

- Bus routing
- Bus terminus location
- Bus stop location

2.1.3.3 Able to input both gazetted and actual version of the spatial data

2.1.3.4 Able to input changes in advance

Interface from other systems

2.1.3.5 Real-time telematics information (BTS)

2.1.3.6 Estimated time of arrival of buses at stop level (BOM)

2.1.3.7 Bus operation schedule (Hastus)

2.1.3.8 Textual data of bus routing and bus stop location (BSI)

2.1.4 Output requirements

2.1.4.1 The map view and line chart should auto-refresh at a configurable interval

2.1.4.2 Use different colours/icons to illustrate buses of specific conditions such as not in service, buses of lost GPS location, etc

2.1.4.3 Can easily toggle between the map view and the line chart

Specific for map view

2.1.4.4 The base maps should be down to the scale of 1:2000

2.1.4.5 Users can conveniently configure which map layers should be visible or invisible

2.1.4.6 Multiple routes shown be shown in different colours on map

2.1.4.7 Road segments where buses are slow-moving should be high-lighted

2.1.4.8 Able to play back the movement of a set of buses on map

2.1.4.9 Able to retrieve a past snapshot of the map view

2.1.4.10 Allow to print out the whole or a part of the map

2.1.4.11 Linkage to Google street view

2.1.4.12 Linkage to CCTV cameras provided by Transport Department

Specific for line chart

2.1.4.13 The spacing between the stops on a line chart can be proportional to the actual distance apart or at equi-separation

2.1.4.14 Allow to hide a number of stops on a line chart

ROM Requirement Specification
Activities Description

2.1.5 General Considerations

2.1.5.1 After the smooth operation of ROM, the spatial data maintained in ROM should be considered to serve as a source for other GIS systems of KMB;

2.1.5.1.1 Passenger Enquiry System (PEQ)

2.1.5.1.2 Mapping system of Planning & Development Department (MAP)

2.1.5.1.3 KMB web site and mobile app

Confidential

2.2 Departure Management

2.2.1 Goals and Objectives

- 2.2.1.1 To improve bus service by attaining a high level of schedule adherence
- 2.2.1.2 To optimize the utilization of spare resources
- 2.2.1.3 To control the lost trip percentage

2.2.2 Scope and Boundaries

2.2.2.1 Departure time regulation

- 2.2.2.1.1 The operating schedule will be passed from Hastus to ROM and TOM before the operating day
- 2.2.2.1.2 Duty Dispatch Office will make changes in TOM before or on the operating day, such as:
 - Cancel duties due to crew or bus shortage
 - Swap bus captains among duties
 - Swap buses among duties
 - Add temporary duties if spare resources are available
- 2.2.2.1.3 ROM should enable dispatchers to refine the departure schedule prior to daily operation according to the updates in TOM
- 2.2.2.1.4 Regulation may also be required during the daily operation as a consequence of bus breakdown, traffic accident or bus captain who quitted duty
- 2.2.2.1.5 The regulation method can be saved as a template for re-applying in future under similar situation

2.2.2.2 Departures monitoring

- 2.2.2.2.1 Departures delayed or potentially delayed should be brought to the attention of dispatchers
- 2.2.2.2.2 System should inform the dispatcher other departure(s) affected by the delay
- 2.2.2.2.3 Delayed departures should be displayed in descending order of severity which is dependent on factors like:
 - Whether the departure is the first/last departure of the day (by direction)
 - Whether the route is a BPS route
 - The departure frequency at the time slot
 - The average occupancy of the route at the time slot
- 2.2.2.2.4 The acknowledgement status and the regulation arrangements for the delayed departures should be shown
- 2.2.2.2.5 A dispatcher can conveniently configure the set of routes to be monitored by him/her

2.2.2.3 Redeployment management

- 2.2.2.3.1 Provide aids for dispatchers to re-allocate resources among routes in response to service disruption
- 2.2.2.3.2 Redeployment arrangement should take into account factors like average occupancy, departure frequency, lost trip percentage of the concerned routes
- 2.2.2.3.3 Redeployment arrangement must comply to a set of constraints such as bus captain qualification, bus captains working guidelines compliance, overnight parking location compliance etc

ROM Requirement Specification Activities Description

2.2.3 Input requirements

Input in ROM

2.2.3.1 Bus breakdown information

2.2.3.2 The attendance and responsible routes of the dispatchers

Interface from other systems

2.2.3.3 Lost trip statistics (TER)

2.2.3.4 Average carriage per trip by time intervals (CSS)

2.2.3.5 Real-time telematics information (BTS)

2.2.3.6 Estimated time of arrival of buses at stop level (BOM)

2.2.3.7 Bus operation schedule (Hastus)

2.2.3.8 Duty dispatch information (TOM)

2.2.3.9 Bus routing information (BSI)

2.2.3.10 Traffic accident information (OCM)

2.2.3.11 Duty Roster System (DRS)

2.2.4 Output requirements

2.2.4.1 The departures which need dispatcher's attention would be shown on a large TV and at the dispatcher's desktop

2.2.5 General Considerations

2.2.5.1 Dispatcher can use the communication methods mentioned in 2.4 to inform the regulation results to bus captains

2.2.5.2 Audit trail must be provided for all the departure regulation activities

2.2.5.3 Departure management in ROM should also cater for operation under typhoon situation. ROM should assist in managing the bus withdrawal on advent of typhoon and service restoration after typhoon.

ROM Requirement Specification Activities Description

2.3 Diversion Management

2.3.1 Goals and Objectives

2.3.1.1 Improve the timeliness in handling an incident which involves road diversion

2.3.1.2 Build the framework for incident management by ROM in future when driver console is in place

2.3.2 Scope and boundaries

2.3.2.1 Impact analysis on a planned or un-planned road diversion

2.3.2.2.1 Provide convenient ways for user to specify the roads blocked due to an incident

2.3.2.1.2 Identify the bus routes affected

2.3.2.1.3 Identify the buses trapped in the incident spot

2.3.2.1.4 Identify the buses on the way to the incident spot

2.3.2.2 Recommendations on the diversion method

2.3.2.2.1 System should recommend the diversion method(s) under the road blockage

2.3.2.2.2 User may modify the diversion method recommended by the system or directly draw the diversion path on map manually

2.3.2.2.3 The diversion methods can be saved as templates for consideration in future under similar situation

2.3.3 Input requirements

Spatial data

2.3.3.1 As mentioned in 2.1.3

Interface from other systems

2.3.3.2 Real-time telematics information (BTS)

2.3.3.3 Estimated time of arrival of buses at stop level (BOM)

2.3.3.4 Bus operation schedule (Hastus)

2.3.3.5 Duty dispatch information (TOM)

2.3.3.6 Bus routing information (BSI)

2.3.4 Output requirements

2.3.4.1 A sketch of the gazetted routing (蛇仔圖) of all routes

2.3.4.2 A sketch of diversion method (蛇仔圖) for the affected routes

2.3.5 General Considerations

2.3.5.1 Dispatcher should be able to use the communication methods mentioned in 2.4 to inform the diversion arrangement to bus captains

2.3.5.2 Audit trail must be provided for the diversion management activities

**ROM Requirement Specification
Activities Description**

2.4 Communication Management**2.4.1 Goals and Objectives**

- 2.4.1.1 To improve the efficiency in the communication among dispatchers, bus captains, outdoor staff and other user parties
- 2.4.1.2 Build the framework for incident management by ROM in future when driver console is in place

2.4.2 Scope and boundaries**2.4.2.1 Phone call communication**

- 2.4.2.1.1 ROM should provide functions which assist dispatchers in telephone communication with bus captains

2.4.2.2 Disseminate message to bus captains via TER

- 2.4.2.2.1 Dispatcher should be able to input message on the map view or line chart to disseminate to selected bus captain(s) via TER
- 2.4.2.2.2 Dispatcher should be informed of any message failed to disseminate

2.4.3 Input requirements**Interface from other systems**

- 2.4.3.1 Phone number of the bus captains (TOM)
- 2.4.3.2 Bus operation schedule (Hastus)

2.4.4 Output requirements

- 2.4.4.1 Map view and line chart should also show the messaging details

2.4.5 General Considerations

- 2.4.5.1 Audit trail must be provided for the message dissemination activities

GLOSSARY

BPS

Stand for Best Practise Scheduling for bus operation. Generally bus hopping would be employed to a large extent under this practise

Dispatcher

The person who operates at the control centre and takes the current responsibilities of a terminus supervisor

BOM

Bus Onboard Management System of KMB

BSI

Bus Stop Inventroy System of KMB

DRS

Duty Roster System of KMB

OCM

Operations Communication Management System of KMB

ETA

Estimated time of arrival of the bus at a specific location

TER

Terminus Management System of KMB

TOM

Traffic Operation Management System of KMB

The Kowloon Motor Bus Co. (1933) Ltd.
MEMORANDUM

To : Distribution

Date : 18 November 2014

From : ROM Project Leader
Information Technology Department

Ref. : MM/ADD/14016

Real-time Operations Management System (ROM) Project Status

All users have signed back the System Proposal in October. ROM project is now at the implementation stage. Project Team is building the system according to the design illustrated in the System Proposal and the progress is on schedule.

Digital Map sourcing is in progress. We are waiting for the quotation from 2 selected vendors.

We figured out that ROM need to interface with 13 existing systems. We are about to issue System Change Request to those interface projects where system modification is required for the interface.

We plan to invite users to have an early inspection of the most critical functions of ROM so as to smoothen the next stage - User Acceptance Test.

Should you have any queries, please feel free to contact me at [REDACTED]

Thank you for your attention.



Chung-lim Chan

Distribution

Operations Director
Head of Traffic Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
General Manager, Long Win Bus Co. Ltd.

TO : Head of Information Technology Department
FROM : Operations Director's Office

APPROVAL OF SYSTEM PROPOSAL

Project : Real-Time Operation Management System (ROM)

Document No. : KDP-LPM-SP01.0

We approve the above-mentioned System Proposal.

Approved By



Head of Department/Depot

29 Oct 2014

Date

TO : Head of Information Technology Department
FROM : Tuen Mun Depot

APPROVAL OF SYSTEM PROPOSAL

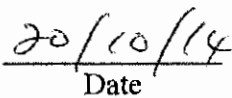
Project : Real-Time Operation Management System (ROM)

Document No. : KDP-LPM-SP01.0

We approve the above-mentioned System Proposal.

Approved By


Head of Department/Depot


Date

TO : Head of Information Technology Department
FROM : Lai Chi Kok Depot

APPROVAL OF SYSTEM PROPOSAL

Project : Real-Time Operation Management System (ROM)

Document No. : KDP-LPM-SP01.0

We approve the above-mentioned System Proposal.

Approved By



Head of Department/Depot

12 Nov 2014.
Date

TO : Head of Information Technology Department
FROM : Shatin Depot

APPROVAL OF SYSTEM PROPOSAL

Project : Real-Time Operation Management System (ROM)

Document No. : KDP-LPM-SP01.0

We approve the above-mentioned System Proposal.

Approved By



Head of Department/Depot

7/11/2014

Date

ROM System Proposal

THE KMB INFORMATION TECHNOLOGY DEPARTMENT


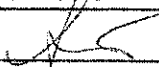
SYSTEM PROPOSAL

for

REAL-TIME OPERATION MANAGEMENT SYSTEM (ROM)

DOCUMENT NO.

KDP-ROM-SP01.0

| | Prepared by Project Team | Reviewed and Approved by Principal Systems Analyst |
|-----------|---|---|
| Name | CHAN CHUNG LIM | Michael Lee |
| Signature |  |  |
| Date | 10/10/2014 | 10/10/2014 |

PREFACE

This document contains 10 chapters:

- | | |
|-----------|---|
| Chapter 1 | System Overview It describes the objectives and benefits that can be achieved and the various functions that are provided by the proposed system. It also contains the general system flow and the corresponding description of each step within the system flow. Assumptions and Constraints that are unique to the system are stated for better user understanding of the proposed system. The other computerized systems that provide information to or retrieve information from the system are listed together with the shared information items. |
| Chapter 2 | System Configuration It describes the hardware and software environment in which the system can be operated. |
| Chapter 3 | Contact Points When the system is installed in the future, users have to contact different personnels from Information Technology Department and other user departments when running the system, this chapter shows all the persons from each department that are involved with the system and their corresponding telephone numbers. |
| Chapter 4 | System Security It lists the security features built in the system. |
| Chapter 5 | General User Responsibilities It states the general functions and responsibilities that should be performed and observed by users to ensure the accuracy and integrity of the system. |
| Chapter 6 | File Retention Policy It proposes at what time interval the data files are stored and how long they are kept. |
| Chapter 7 | System Functions Section It describe the system functions provided by ROM except reports which are described in Chapter 8. It also lists the users of each function. |

| | |
|------------|---|
| Chapter 8 | Control Center Operation It illustrates how ROM can assist dispatchers in control center operation by some examples cases |
| Chapter 9 | Contingency Measure It describes briefly what measures to be taken in case of system failure or operation disorder such as typhoon. |
| Chapter 10 | Development Schedule It describes briefly the major activities to be performed by the project team and the user departments in each of the subsequent phases in the system development life cycle. It also contains a project implementation schedule for those subsequent phases. |

The Appendix contains additional information about the system that will better help the user to understand the proposed system.

In order to meet the project schedule, project team has to assume that users with no feedback before **24th October, 2014**, accept the System Proposal and no change to the requirements will be handled hereafter.

Acknowledgement

The System Proposal is prepared by the ROM Project Team of the Information Technology Department. Any query about the contents of this specification may be forwarded to:

Mr. Chan Chung Lim Tel. No. [REDACTED]

Ms. Grace Woo Tel. No. [REDACTED]

Thanks to all the colleagues involved in the functional design phase of ROM system, especially:

Mr. Fung Siu Hung (Shatin Depot)

Ms. Alice Wong (OD Office)

Mr. Terry Lo (Traffic Department)

Mr. Yik Sing Kwok (KB Depot)

Mr. Ken Wong (LCK Depot)

Mr. Tony Wong (LCK Depot)

Mr. Kelvin Yeung (TM Depot)

Mr. Chris Lo (Shatin Depot)

Mr. Kelvin Mak (Long Win)

CONTENTS

| | |
|--|-----------|
| 1. SYSTEM OVERVIEW | 6 |
| 1.1 SYSTEM OBJECTIVES AND BENEFITS..... | 7 |
| 1.2 GENERAL SYSTEM FLOW | 8 |
| 1.3 SYSTEM FUNCTIONS..... | 10 |
| 1.4 DESCRIPTION OF SYSTEM FUNCTIONS | 11 |
| 1.5 SYSTEM ASSUMPTIONS AND CONSTRAINTS..... | 30 |
| 1.6 SYSTEM INTERFACE..... | 31 |
| 2. SYSTEM CONFIGURATION | 32 |
| 2.1 HARDWARE DESCRIPTION | 33 |
| 2.2 SOFTWARE DESCRIPTION | 33 |
| 3. CONTACT POINTS | 34 |
| 3.1 USER CONTACT POINT | 35 |
| 3.2 IT CONTACT POINT..... | 35 |
| 4. SYSTEM SECURITY | 36 |
| 5. GENERAL USER RESPONSIBILITIES | 38 |
| 6. DATA RETENTION POLICY | 40 |
| 7. SYSTEM FUNCTIONS SECTION | 42 |
| 7.1 SUMMARY OF SYSTEM FUNCTIONS | 43 |
| 7.2 SAMPLE OF SYSTEM FUNCTIONS..... | 46 |
| 8. CONTROL CENTER OPERATION..... | 70 |
| 8.1 ILLUSTRATION BY EXAMPLES | 71 |
| 9. CONTINGENCY MEASURES..... | 94 |
| 9.1 OPERATIONAL CRISIS..... | 95 |
| 9.2 SYSTEM FAILURE | 95 |
| 10. DEVELOPMENT SCHEDULE | 97 |
| 10.1 DEVELOPMENT SCHEDULE AND DESCRIPTION..... | 98 |
| APPENDIX | 99 |
| A.1 GLOSSARY..... | 100 |
| A.2 SEVERITY SCORE ON INCIDENT BOARD | 101 |
| A.3 PRIORITY SCORE ON RESOURCES AVAILABILITY | 104 |
| A.4 GUIDELINES ON BUS CAPTAIN – WORKING HOURS, REST TIMES AND MEAL BREAKS..... | 106 |

1. System Overview

1.1 System Objectives and Benefits

This document proposes the future ROM System which aims to fulfill the requirements stated in the ROM System Requirement Specification Version 1.0 (KDP-ROM-RS001.0). This system will assist dispatchers in the monitoring and management of bus operation at the Operation Control Center (OCC).

The centralised management of bus operation is expected to bring the following benefits:

- Standardise the working procedure across all depots of KMB
- Streamline the bus operation
- Improve operational efficiency
- Ensure schedule adherence to elevate customer satisfaction
- Attain optimal resources utilisation
- Improve the timeliness in handling service disruption

CONFIDENTIAL

General System Flow
1.2 General System Flow

- a) Before the operating day
 - a.1 Hastus passes the working timetable to ROM one day in advance
 - a.2 Having loaded into ROM, dispatchers can modify the working timetable in advance as requested by Operation

- b) On the operating day
 - b.1 Manage exceptions detected by system
 - b.1.1 System will generate incidents onto the Incident Board which require dispatchers' attention.
Examples are:
 - (1) TOM system informs there's resource shortage/addition to a route
 - (2) ROM predicted there's insufficient layover or meal break time for a trip
 - (3) ROM detected there's insufficient layover or meal break time for a trip on the actual bus arrival
 - (4) A bus is off-route
..... etc.
 - b.1.2 ROM will automatically set the incident handler to be the primary respondent of the route so that the case will appear on the large TV and on the designated dispatcher's monitor.
 - b.1.3 The primary respondent of the route may acknowledge the case to handle it. Alternatively he/she may reject it if he/she is busy. If rejected, system automatically assign secondary respondent to be the handler. If also rejected by the secondary respondent, the incident will be assigned to OCC commander
 - b.1.4 If no response from the designated handler within a configurable length of time, ROM will also pass the case to the next handler
 - b.1.4 A case would disappear from the Incident Board depending on its nature. For the examples in b.1.1:
 - (1) disappear after the handler declared the regulation is done or is not necessary
 - (2) disappear when sufficient layover or meal break time is predicted or bus actually arrived
 - (3) disappear after the bus captain obtained the revised departure time
 - (4) disappear if the bus back to the right routing or dispatcher instructed to ignore
 - b.2 Manage exceptions reported by bus captains or other parties
 - b.2.1 Bus Breakdown
 - Bus captain reports bus breakdown to Reception Office
 - Reception Office advise BC to drive the bus to depot or a terminus
 - Reception Office informs input the accident in BMS and pass to ROM
 - Affected departures will appear on the Incident Board
 - Dispatcher(s) perform departure time regulation / resources re-allocation (抽調) for affected departures where necessary
 - System automatically sends message to inform the relevant termini of the affected route(s) which are still managed by TER
 - When the bus finished repair or substitute bus is available, dispatcher advise the BC how and where to resume duty and input the arrangement into ROM
 - b.2.2 Traffic accident
 - Bus captain reports the accident to Radio Control
 - Radio Control arrange inspector(s) to support at the accident spot
 - Radio Control input the case into OCM
 - ROM obtain the accident information from OCM
 - Affected departures will appear on the Incident Board
 - Dispatcher(s) perform departure time regulation / resources re-allocation (抽調) for affected departures where necessary
 - System automatically sends message to inform the relevant termini of the affected route(s) which are still managed by TER
 - Inspector inform OCC the accident case has been settled
 - Switch to bus breakdown handling method (b.2.1)

General System Flow

- b.2.3 Other incidents
 - Record the incident into ROM
 - Arrange inspector to support the BC if necessary
 - If service is disrupted by the incident, affected departures will appear on the Incident Board
 - System automatically sends message to inform the relevant termini of the affected route(s) which are still managed by TER
 - Dispatcher(s) perform departure time regulation / resources re-allocation (抽調) for affected departures where necessary
 - b.3 Handle redeployment to special routes (race course routes, railway contingency routes etc.)
 - b.3.1 Select buses and redeploy to the special route
 - b.3.2 Affected bus captains will be prompted to contact OCC when they tap card at terminus
 - b.3.3 System automatically sends message to inform the relevant termini of the affected route(s) which are still managed by TER
 - b.4 Message dissemination by Radio Control
 - b.4.1 Prepare the message and specify the messaging properties such as affected terminus, routes etc.
 - b.4.2 May make use of the digital map to determine the affected terminus or routes
 - b.4.3 Specify the targeted termini to receive the message or all termini
 - b.4.4 Send out the message
 - b.5 Message dissemination to bus captains by OCC
 - b.5.1 Prepare the message and specify the messaging properties such as the effective time, targeted recipient(s), acknowledgement requirement etc.
 - b.5.2 Send out the message
 - b.5.3 Read the messages sent from Radio Control and forward the message to BC if appropriate
- c) Shift end/day end processing
 - C.1 Dispatcher verifies data completeness of the day/shift and rectify where necessary
 - c.2 Dispatcher hand over out-standing incidents to next shift

System Functions

1.3 System Functions

ROM will provide the following set of functions to assist the control center operation outlined in section 1.2.

Reference tables Maintenance

This set of functions is to maintain the system parameters and reference data

Real-time Bus Monitoring

This set of functions help dispatchers visualize the current status of the bus operation on a digital map or a line chart. These tools enable dispatchers to locate buses, check current headway, predict arrival and evaluate the traffic conditions in a very convenient way.

Departure Management

This set of functions is the core of the ROM system. It aims to facilitate the dispatchers in the following ways:

- Spot out abnormal conditions in bus operation so that preventive/remedial action can be taken in a timely manner
- Provide thorough information for dispatchers to make decision during resources re-allocation
- Perform departure time regulation in the most effective way
- Fast response to handle bus service disruption such as bus breakdown, accident, congestion etc.
- Conveniently disseminate messages to bus captain(s)

Dispatchers Management

This set of functions are mainly used for managing the roster, attendance and responsibilities of dispatchers

Reporting

System provides many reports for monitoring, audit trail, analysis and management purposes

Access Control

This set of functions are for a master user to manage the access right in ROM for other colleagues

Section 1.4 will further elaborate on the system functions

Description of System Functions

1.4 Description of System Functions

1.4.1 Reference Tables maintenance

1.4.1.1 Maintain OCC table

1.4.1.1.1 Maintain the information of an OCC

- OCC code
- Description
- Depot

1.4.1.2 Maintain system parameters table

1.4.1.2.1 Maintain system parameters:

- Whether ETA should be enabled
- Incident handler acknowledgement time-out limit
- Minimum layover between arrival and departure
- Maximum allowable delay in bus departure
- Traffic jam recognition : more than X% of buses with delay Y minutes or more relative to the scheduled arrival time
- The percentage of journey time to be elapsed before ETA should be shown
- Default settings of Map/Line view

1.4.1.3 Maintain route table

1.4.1.3.1 Maintain the information of a route:

- Whether ETA should be enabled for the route (override the setting in system parameter)
- Start date for management under ROM
- “Tap card” exemption time for the route if applicable
- The primary respondents and secondary respondents of the route
- The percentage of journey time to be elapsed before ETA should be shown (override the system parameter)

1.4.1.4 Maintain bus captains table

1.4.1.4.1 Maintain the information of a bus captain:

- Telephone no.

1.4.1.5 Maintain incident nature table

1.4.1.5.1 Maintain the properties of an incident

- Incident code
- Incident description
- Whether selectable by dispatcher

1.4.1.6 Maintain resources hunting priority score settings

1.4.1.6.1 Maintain the formula and weighs in the priority score on resources available for re-deployment

1.4.1.7 Maintain incident severity score settings

1.4.1.7.1 Maintain the formula and weighs in the severity score for incidents on the Incident Board

Description of System Functions

1.4.2 Real-time Bus Monitoring

1.4.2.1 Bus Display on map view

- 1.4.2.1.1 User can check the status of a set of buses, bus termini and bus stops on digital maps
- 1.4.2.1.2 The set of buses, bus termini and bus stops can be selected by geo-fence method or a combination of routes, buses and bus captains
- 1.4.2.1.3 User can switch on or off the information of a bus on map such as the bus number, running number, minute(s) ahead or behind schedule, the crew duty and bus captain operating the trip, speed etc
- 1.4.2.1.4 Users can switch on or off the information of a bus terminus on map such as the ETA of each route of the terminus, the spare resources at the terminus etc
- 1.4.2.1.5 User can switch on or off the information of a bus stop on map such as last arrival time and ETA of each route etc
- 1.4.2.1.6 Buses going off track are high-lighted
- 1.4.2.1.7 May auto-refresh at a configurable interval
- 1.4.2.1.8 Use different colours/icons to illustrate buses of specific conditions such as not in service, buses of lost GPS location, etc
- 1.4.2.1.9 Can easily toggle into line chart
- 1.4.2.1.10 User can configure which map layers should be visible or invisible
- 1.4.2.1.11 Multiple routes should be shown in different colours on map
- 1.4.2.1.12 Able to play back the movement of a set of buses on map
- 1.4.2.1.13 Able to retrieve a past snapshot of the map view
- 1.4.2.1.14 Provide link to Google street view
- 1.4.2.1.15 Provide icon on map to link to CCTV cameras provided by Transport Department
- 1.4.2.1.16 Allow user to disseminate message to a specific bus captain/bus duty

1.4.2.2 Bus Display on line chart

- 1.4.2.2.1 User can check the status of a set of buses, bus termini and bus stops on line chart
- 1.4.2.2.2 The set of buses, bus termini and bus stops can be selected by a combination of routes, buses and bus captains
- 1.4.2.2.3 User can switch on or off the information of a bus on map such as the bus number, running number, minute(s) ahead or behind schedule, the crew duty and bus captain operating the trip, speed etc
- 1.4.2.2.4 Users can switch on or off the information of a bus terminus on map such as the ETA of each route of the terminus, the spare resources at the terminus etc
- 1.4.2.2.5 User can switch on or off the information of a bus stop on map such as last arrival time and ETA of each route etc
- 1.4.2.2.6 May auto-refresh at a configurable interval
- 1.4.2.2.7 Use different colours/icons to illustrate buses of specific conditions such as not in service, buses of lost GPS location, etc
- 1.4.2.2.8 Can easily toggle into map view
- 1.4.2.2.9 The spacing between the stops on a line chart can be proportional to the actual distance apart or at equi-separation
- 1.4.2.2.10 Allow to hide a number of stops on a line chart

Description of System Functions
1.4.3 Departure Management Functions
1.4.3.1 行車事件表 (Incident Board)

- 1.4.3.1.1 A table to show the incidents which require the attention of dispatchers. The incidents may be automatically created or manually input as described in 1.4.3.1.2 – 1.4.3.1.5
- 1.4.3.1.2 Incidents which automatically detected by system
- A trip predicted to have delay which cannot be absorbed by the layover or caused insufficient meal break time
 - A route probably encountering traffic jam, identified by more than X% of buses with ETA - scheduled arrival time > Y minutes or more, where X and Y are system parameters
 - Delayed departure - a trip where the bus has not departed after N1 minutes from the scheduled departure time where N1 is a system parameter
 - Early departure - a trip where the bus has departed N2 minutes or more before the scheduled departure time where N2 is a system parameter
 - Off-track buses
 - Suspected delay of tap card by bus captain – bus captain not yet tap card after N3 minutes or more from the bus arrival time deduced from Wi-Fi signal and telematics status
 - Buses where the operating route is consistent with the route selected on the bus stop announcement device (provisional)
- 1.4.3.1.3 Incidents triggered by bus captains tapping card at terminus
- Bus captain tap card and ROM recognized that the delay cannot be absorbed by the layover or caused insufficient meal break time
- 1.4.3.1.4 Incidents interfaced from other systems (traffic accidents etc)
- BMS informed a bus breakdown
 - OCM informed a traffic accident
 - TOM informed a duty is cancelled due to bus or BC shortage
- 1.4.3.1.5 Incidents input by dispatchers
- Input a bus breakdown reported by bus captain (in case BMS has not yet passed the case to ROM)
 - Input a traffic accident reported by bus captain (in case OCM has not yet passed the case to ROM)
 - Input a bus captain who has requested early leave from duty
 - Input an incident reported by bus captain which caused service disruption, such as lost property case
- 1.4.3.1.6 ROM will set the incident handler to be a primary respondent of the route among the dispatchers on duty. If no primary responsible dispatcher is on duty, ROM will look for a secondary responsible dispatcher of the route.
- 1.4.3.1.7 Once the case handler is assigned, the case will also appear on the assigned dispatcher's monitor
- 1.4.3.1.8 The assigned dispatcher should acknowledge the incident within a time limit which is a configurable system parameter. If not acknowledged within the time limit, system will re-assign the case to another dispatcher
- 1.4.3.1.9 The assigned dispatcher may decline to handle the incident if he/she is too busy. He/she can reject the case so that ROM will select another dispatcher at once
- 1.4.3.1.10 2 versions of the Incident Board – TV version and dispatcher version
- TV version
- Show all outstanding incidents
 - Sort in the descending order of urgency score (please see appendix A.2 for definition of urgency score)
 - An incident is defaulted with a handler who should be the primary respondent of the route
 - If the primary respondent is occupied at the moment, he/she can pass the incident to the secondary respondent of the route
 - If the secondary respondent is also occupied at the moment, he/she can pass the incident to the OCC commander
- Dispatcher version
- Defaulted to show the outstanding incidents responsible by the dispatcher
 - Sort in the descending order of urgency score as for TV version
 - Contain more information such as ETA and the next duty(s) affected by the incident
 - Provide links to Map View, Line Chart, Arrival/Departure Board and Timetable Maintenance functions
- 1.4.3.1.11 The conditions for an incident to disappear from the Incident Board depend on the nature of the incident. Project team will confirm the details with users at a later stage
- 1.4.3.1.12 Please see the sample of TV version in 7.2.2.1 and dispatcher version in 7.2.2.3

Description of System Functions
1.4.3.2 行車概況表 (Route Performance Board)

- 1.4.3.2.1 A chart to show the performance of a set of routes in the following aspects:
 - Schedule adherence
 - Lost trip percentage
- 1.4.3.2.2 TV version
 - Show all the routes which are now managed by the OCC
 - Sorted in descending order of severity score (please see appendix A.2 for definition of severity score)
 - Please see a sample in 7.2.2.2
- 1.4.3.2.3 Dispatcher version
 - The dispatcher's default page contains the Incident Board at the upper portion and the Route Performance Board at the lower portion
 - The Route Performance Board will show the routes where the dispatcher is a primary or secondary responsible person
 - Sorted by route no. within the primary responsible routes and secondary responsible routes
 - Please see a sample in 7.2.2.3

1.4.3.3 行車班次表 (Arrival/Departure Board)

- 1.4.3.3.1 A chart to show all trips of a route being operated together with next departures
- 1.4.3.3.2 Shown by both bounds
- 1.4.3.3.3 Different colours to distinguish trips of different status:
 - Trips not yet departed, bus is already at the terminus
 - Trips not yet departed, bus has not arrived at the terminus
 - Trips departed and bus is on the road
- 1.4.3.3.4 ETA is shown for departed trips
- 1.4.3.3.5 Allow to merge or split different route variants on a chart provided they are on the same bound
- 1.4.3.3.6 Allow to merge or split parent route and son route(s)
- 1.4.3.3.7 Headway information and lost trip statistics are shown
- 1.4.3.3.8 The no. of charts shown on one page is configurable
- 1.4.3.3.9 Special incident associated with a trip will be high-lighted in red
- 1.4.3.3.10 Provide links to Map View, Line Chart and TimeTable Maintenance function
- 1.4.3.3.11 Provide the telephone no. of bus captains currently at the termini
- 1.4.3.3.12 Please see a sample in 7.2.2.7 & 7.2.2.8

1.4.3.4 修改行車時間表 (Working Timetable Maintenance)

- 1.4.3.4.1 Dispatchers can amend the working timetable by this function
- 1.4.3.4.2 Can specify the working timetable for a set of route(s), bus(es) or bus captain(s).
- 1.4.3.4.3 May also retrieve the working timetable related to an incident
- 1.4.3.4.4 The timetable retrieved is a set of bus operation activities which originate from the Hastus System
- 1.4.3.4.5 Can toggle among the time view, bus view and BC view
- 1.4.3.4.6 Default is the time view. User can only view the information under bus view or BC view. Update is allowed in time view only
- 1.4.3.4.7 Under time view, user can switch to the departure time regulation mode which has the following features:
 - Departures of different bounds can be separated into upper and lower windows
 - Provide simple auto-regulation function. Please see more details in appendix A.
 - Can save the regulated timetable for re-applying in future under the same situation
- 1.4.3.4.8 Dispatchers can input message on a trip so that bus captain will view the message when he/she taps card to report arrival at terminus
- 1.4.3.4.9 Resources re-allocation aids are provided:
 - High-light a trip and invoke the resources hunting function
 - Available resources suitable for deploying to the high-lighted trips will be shown
 - Supplementary information are provided for dispatcher to make decision on which bus/BC to be utilised
 - User may change the searching criteria to explore on the available resources
- 1.4.3.4.10 Please see a sample in 7.2.2.9.8

Description of System Functions

1.4.3.5 電台發放訊息 (Message dissemination from Radio Control)

- 1.4.3.5.1 Replace the message dissemination function TME022 of TER System
- 1.4.3.5.2 Radio Control Section and Depot Operation may disseminate messages to termini using this function
- 1.4.3.5.3 Will provide all the existing messaging criteria as for TME022
- 1.4.3.5.4 User may invoke the digital map and geo-fence on it to figure out the relevant routes for a message
- 1.4.3.5.5 The message disseminated may also be viewed by OCC (please see 1.4.3.6)
- 1.4.3.5.6 Please see a sample in 7.2.2.4

1.4.3.6 OCC 發放訊息 (OCC message dissemination)

- 1.4.3.6.1 This function is used by dispatchers to disseminate messages to bus captains for the following purposes:
 - Post information to bus captains (e.g. re-routing is in effect)
 - Give instruction to bus captains (e.g. contact control center, taking statistics)
- 1.4.3.6.2 Dispatcher can specify the following messaging properties
 - Recipients
 - Effective date and time range
 - Acknowledgement requirement
 - Maximum display time
 - Display before departure or after arrival
- 1.4.3.6.3 Dispatcher may also view the messages disseminated by Radio Control in 1.4.3.5 and pick the relevant ones to send to bus captains

1.4.3.7 車長到站拍卡 (Arrival Reporting by Bus Captains)

- 1.4.3.7.1 This function is used to convey message(s) to bus captains when they tap the driver card at terminus to report arrival
- 1.4.3.7.2 2 sources of messages:
 - System automatically send the next departure instruction to bus captain
 - Message placed by dispatchers (please see 1.4.3.4 and 1.4.3.6)
- 1.4.3.7.3 Will interact with TER such that ROM and TER will serve their own set of departures. This arrangement is necessary in the interim period where some routes are managed by TER and some by ROM
- 1.4.3.7.4 A number pad will be attached to the terminus PC to enable 2-way communication with bus captains with OCC

1.4.3.8 調度員下班程序 (Dispatcher Sign-out Procedure)

- 1.4.3.8.1 Departures responsible by the dispatcher with incomplete input, if any, will be shown for the dispatcher to note and rectify
- 1.4.3.8.2 Out-standing incidents of the dispatcher will be shown. He/she should close the incident(s) which are already completed
- 1.4.3.8.3 Once signed out, outstanding incidents of the dispatcher will be automatically assigned to the responsible dispatcher next shift who should acknowledge the incident on his/her incident board

Description of System Functions

1.4.4 Dispatchers Management Functions**1.4.4.1 Maintain dispatcher table**

- 1.4.4.1.1 Maintain the basic information of a dispatcher such as the his/her role and belonging OCC

1.4.4.2 Maintain shift duration table

- 1.4.4.2.1 Maintain the start time and end time of a dispatcher shift
- 1.4.4.2.2 The shift durations can be overlapping

1.4.4.3 Import / Maintain the duty roster of dispatchers

- 1.4.4.3.1 Can import dispatchers' duty roster of the coming month into ROM from an Excel file
- 1.4.4.3.2 Allow to modify the imported duty roster

1.4.4.4 Maintain the working status of dispatcher

- 1.4.4.4.1 Input the working status of a dispatcher on current day if different from the roster

1.4.4.5 Re-assignemnt of dispatcher responsibility

- 1.4.4.5.1 Show the responsible routes of dispatchers on current day or a future day
- 1.4.4.5.2 High-light routes with less than 2 responsible persons
- 1.4.4.5.3 User may temporarily add the primary/secondary responsible dispatcher for a route

Description of System Functions**1.4.5 Reporting****1.4.5.1 Monitoring Reports****1.4.5.1.1 List of BCs who are willing / not willing to run extra trips or redeployment****1.4.5.1.1.1 Selection Criteria**

1.4.5.1.1.1.1 BC Employee No. / Route No. (either one must be input)

1.4.5.1.1.1.2 Operating Time Range

1.4.5.1.1.1.3 Shift – Day / Night / All

1.4.5.1.1.1.4 Duty Category – Special Only / L-Duty / All

1.4.5.1.1.1.5 Preference – Willing / Not Willing / All

1.4.5.1.1.2 Output

1.4.5.1.1.2.1 Operating date range

1.4.5.1.1.2.2 BC Employee No.

1.4.5.1.1.2.3 BC Name in Chinese

1.4.5.1.1.2.4 Scheduled Duty assigned

1.4.5.1.1.2.5 Trained Route No. (active)

1.4.5.1.1.2.6 % that willing to taking extra work

1.4.5.1.1.3 Remarks

1.4.5.1.1.3.1 A function for user to input/maintain preference of BC working extra trips or redeployment is required

1.4.5.1.1.4 Used By

1.4.5.1.1.4.1 Depots, LW, Traffic

1.4.5.1.2 Prompt list of BCs / trips / routes with abnormal departure or arrival records**1.4.5.1.2.1 Selection Criteria**

1.4.5.1.2.1.1 Operating Date (must be before current day)

1.4.5.1.2.1.2 Departures/Arrival earlier/ later than scheduled time for minutes or more

1.4.5.1.2.1.3 Operating Route and run no. (optional)

1.4.5.1.2.1.4 Terminus (optional)

1.4.5.1.2.1.5 Departure time range

1.4.5.1.2.1.6 BC Employee No. (optional)

1.4.5.1.2.1.7 Abnormality – Advanced / Delayed / Delay of Tap Card / Without record of Tap Card / Without Wi-Fi signal

1.4.5.1.2.2 Output

1.4.5.1.2.2.1 Abnormality

1.4.5.1.2.2.2 Operating Date

1.4.5.1.2.2.3 Operating Route No.

1.4.5.1.2.2.4 Terminus

1.4.5.1.2.2.5 BC Employee No.

1.4.5.1.2.2.6 BC Name in Chinese

1.4.5.1.2.2.7 BC Duty

1.4.5.1.2.2.8 Bus No.

1.4.5.1.2.2.9 Departure/Arrival Time

1.4.5.1.2.2.10 Scheduled Departure Time

1.4.5.1.2.2.11 Last Tap Card Time

1.4.5.1.2.2.12 Time difference in minutes (-ve for early; +ve for delay)

1.4.5.1.2.3 Remarks

1.4.5.1.2.3.1 Departure time is deduced from the telematics data or Wi-Fi data where the former takes precedence

1.4.5.1.2.4 Used By

1.4.5.1.2.4.1 Depots, LW, Traffic

1.4.5.1.3 Prompt list of BCs with abnormal driving behaviour**1.4.5.1.3.1 Selection Criteria**

1.4.5.1.3.1.1 Operating Date (must be before current day)

1.4.5.1.3.1.2 Limit exceed

Description of System Functions

- 1.4.5.1.3.1.3 Operating Route and run no. (optional)
- 1.4.5.1.3.1.4 Departure time range
- 1.4.5.1.3.1.5 BC Employee No. (optional)
- 1.4.5.1.3.1.6 Abnormality – Speeding / Drive too slow / Skip Stop(s) / Skip must stopped location / Off-Trace (at least one must be selected, allow to select more than one)
- 1.4.5.1.3.2 Output
 - 1.4.5.1.3.2.1 Abnormality
 - 1.4.5.1.3.2.2 Operating Date
 - 1.4.5.1.3.2.3 Incident time
 - 1.4.5.1.3.2.4 Operating route
 - 1.4.5.1.3.2.5 BC Employee No.
 - 1.4.5.1.3.2.6 BC Name in Chinese
 - 1.4.5.1.3.2.7 BC Duty
 - 1.4.5.1.3.2.8 Bus No.
 - 1.4.5.1.3.2.9 Incident Location – name of street
 - 1.4.5.1.3.2.10 Direction
 - 1.4.5.1.3.2.11 Speed Limit (if applicable)
 - 1.4.5.1.3.2.12 Actual Speed captured
- 1.4.5.1.3.3 Remarks
 - 1.4.5.1.3.3.1 System will report various abnormality according to user selection – e.g. violate traffic rules, fail to observe a “must stop” bus stop, drive too slow, over speed at specific location, not operate according to assigned routeing, etc.
 - 1.4.5.1.3.3.2 System shall eliminate case(s) of driving too slow if incident of traffic congestion/incidents where recorded in ROM.
- 1.4.5.1.3.4 Used By
 - 1.4.5.1.3.4.1 Depots, LW, Traffic
- 1.4.5.1.4 Bus breakdown statistics analysis by reporting BC
 - 1.4.5.1.4.1 Selection Criteria
 - 1.4.5.1.4.1.1 BC Employee No.
 - 1.4.5.1.4.1.2 Bus No.
 - 1.4.5.1.4.1.3 Route No.
 - 1.4.5.1.4.1.4 Operating Date Range
 - 1.4.5.1.4.1.5 Street Name
 - 1.4.5.1.4.1.6 Bus Type
 - 1.4.5.1.4.1.7 Option to show affected Trip only
 - 1.4.5.1.4.1.8 Breakdown by – Bus Type, Street, Operating Route, BC Employee No., Bus No.
 - 1.4.5.1.4.2 Output
 - 1.4.5.1.4.2.1 BC Employee No.
 - 1.4.5.1.4.2.2 BC Employee Name in Chinese
 - 1.4.5.1.4.2.3 Operating Date
 - 1.4.5.1.4.2.4 Bus No.
 - 1.4.5.1.4.2.5 Bus Type
 - 1.4.5.1.4.2.6 Operating Route
 - 1.4.5.1.4.2.7 Break down Item(s)
 - 1.4.5.1.4.2.8 Break down Location (Street name)
 - 1.4.5.1.4.2.9 Incident Reported Time
 - 1.4.5.1.4.2.10 Time of arrival of maintenance station
 - 1.4.5.1.4.3 Remarks
 - 1.4.5.1.4.3.1 Bus breakdown items will be interfaced from BMS
 - 1.4.5.1.4.3.2 Arrival time is deduced from the telematics data or Wi-Fi data where the former takes precedence
 - 1.4.5.1.4.3.3 A delay of 2 days of bus breakdown information is expected
 - 1.4.5.1.4.4 Used By
 - 1.4.5.1.4.4.1 Depots, LW, Traffic

Description of System Functions

- 1.4.5.1.5 Route performance analysis report
 - 1.4.5.1.5.1 Selection Criteria
 - 1.4.5.1.5.1.1 Operating Date Range*
 - 1.4.5.1.5.1.2 Operating Time Range*
 - 1.4.5.1.5.1.3 Day – Weekdays / Saturday / Sunday&PH / Daily / All
 - 1.4.5.1.5.1.4 OCC*
 - 1.4.5.1.5.1.5 Zone*
 - 1.4.5.1.5.1.6 Route Group*
 - 1.4.5.1.5.1.7 Operating Route No.
 - 1.4.5.1.5.1.8 Staff No. / Name
 - 1.4.5.1.5.1.9 Exception Only
 - 1.4.5.1.5.1.10 Report Type – Monthly Average / Comparison
 - 1.4.5.1.5.2 Output
 - 1.4.5.1.5.2.1 Adequacy of Journey Time
 - 1.4.5.1.5.2.1.1 % of trips above the scheduled journey time + layover
 - 1.4.5.1.5.2.1.2 % of trips behind / equal to / ahead of ETA
 - 1.4.5.1.5.2.2 Start Time adherence (STA) - % of trips departing on-time (no more than 1 min. ahead and 3 mins. behind of schedule)
 - 1.4.5.1.5.2.3 Punctuality – % of trips with service gaps higher than 30% variance tolerance level
 - 1.4.5.1.5.2.4 Reliability – lost trip rate with categories
 - 1.4.5.1.5.2.5 Incident
 - 1.4.5.1.5.2.5.1 Number and % of trip with incident
 - 1.4.5.1.5.2.5.2 Number and % of trip with departure time regulated
 - 1.4.5.1.5.2.5.3 Number of times with redeployment
 - 1.4.5.1.5.2.6 Monthly Averages
 - 1.4.5.1.5.2.6.1 Monthly average of SAT & Punctuality of selected date/time range
 - 1.4.5.1.5.2.7 Comparison Report
 - 1.4.5.1.5.2.7.1 Date/time average of SAT & Punctuality
 - 1.4.5.1.5.2.7.2 MoM average of SAT & Punctuality
 - 1.4.5.1.5.2.7.3 YoY average of SAT & Punctuality
 - 1.4.5.1.5.3 Remarks
 - 1.4.5.1.5.3.1 Multiple date range, time range, OCCs, Zone, Route Groups and Categories are allowed for comparison across various comparison groups.
 - 1.4.5.1.5.3.2 STA only apply to routes with peak headway > 10 mins will show
 - 1.4.5.1.5.3.3 Trips considered being on-time if its actual departure time ahead/behind of schedule (after adjustment) no more than 1 min and 3 mins respectively.
 - 1.4.5.1.5.3.4 System shall keep a profile of user selection criteria
 - 1.4.5.1.5.4 Used By
 - 1.4.5.1.5.4.1 Depots, LW, Traffic
- 1.4.5.1.6 Dispatcher performance report – Departure Management
 - 1.4.5.1.6.1 Selection Criteria
 - 1.4.5.1.6.1.1 Operating Date Range*
 - 1.4.5.1.6.1.2 Operating Time Range*
 - 1.4.5.1.6.1.3 OCC*
 - 1.4.5.1.6.1.4 Route Group*
 - 1.4.5.1.6.1.5 Operating Route No.
 - 1.4.5.1.6.1.6 Staff No. / Name
 - 1.4.5.1.6.1.7 Category* – Late arrival, Late arrival (affect other departure / route), Bus breakdown, Accident, Crew shortage, Bus withdrawn, BC quit while on-duty, Passenger related service delay
 - 1.4.5.1.6.1.8 Exception Only
 - 1.4.5.1.6.1.9 Report Type – Monthly Average / Comparison

Description of System Functions

- 1.4.5.1.6.2 Output
 - 1.4.5.1.6.2.1 Start Time adherence (STA) - % of trips departing on-time (no more than 1 min ahead and 3 mins behind of schedule)
 - 1.4.5.1.6.2.2 Punctuality – % of trips with service gaps higher than 30% variance tolerance level
 - 1.4.5.1.6.2.3 Monthly Averages
 - 1.4.5.1.6.2.3.1 Monthly average of SAT & Punctuality of selected date/time range
 - 1.4.5.1.6.2.4 Comparison Report
 - 1.4.5.1.6.2.4.1 Date/time average of SAT & Punctuality
 - 1.4.5.1.6.2.4.2 MoM average of SAT & Punctuality
 - 1.4.5.1.6.2.4.3 YoY average of SAT & Punctuality
- 1.4.5.1.6.3 Remarks
 - 1.4.5.1.6.3.1 Multiple date range, time range, OCCs, Route Groups and Categories are allowed for comparison across various comparison groups.
 - 1.4.5.1.6.3.2 STA only apply to routes with peak headway > 10 mins will show
 - 1.4.5.1.6.3.3 Trips considered being on-time if its actual departure time ahead/behind of schedule (after adjustment) no more than 1 min and 3 mins respectively.
 - 1.4.5.1.6.3.4 System shall keep a profile of user selection criteria
- 1.4.5.1.6.4 Used By
 - 1.4.5.1.6.4.1 Depots, LW, Traffic
- 1.4.5.1.7 Dispatcher performance report – Time to Resolution
 - 1.4.5.1.7.1 Selection Criteria
 - 1.4.5.1.7.1.1 Operating Date Range*
 - 1.4.5.1.7.1.2 Operating Time Range*
 - 1.4.5.1.7.1.3 OCC*
 - 1.4.5.1.7.1.4 Route Group*
 - 1.4.5.1.7.1.5 Operating Route No.
 - 1.4.5.1.7.1.6 Staff No. / Name
 - 1.4.5.1.7.1.7 Category* – Late arrival, Late arrival (affect other departure / route), Bus breakdown, Accident, Crew shortage, Bus withdrawn, BC quit while on-duty, Passenger related service delay
 - 1.4.5.1.7.1.8 Exception Only
 - 1.4.5.1.7.1.9 Report Type – Monthly Average / Comparison
 - 1.4.5.1.7.2 Output
 - 1.4.5.1.7.2.1 Number (and percentage) of cases handled by Principal Dispatcher (assigned by system)
 - 1.4.5.1.7.2.2 Number (and percentage) of cases handled by Backup Dispatcher (assigned by system)
 - 1.4.5.1.7.2.3 Number (and percentage) of cases handled by Backup Dispatcher (self-initiated pick up)
 - 1.4.5.1.7.2.4 Average time (minutes) for Principal Dispatcher to handle each case
 - 1.4.5.1.7.2.5 Average time (minutes) for Backup Dispatcher to handle each case
 - 1.4.5.1.7.2.6 Number of message dispatched
 - 1.4.5.1.7.2.7 Average login time (minutes) - Dispatcher need to logout for leaving the OCC, e.g. go to toilet or have lunch
 - 1.4.5.1.7.2.8 After integration with Telephony System, add report of number of phone-in call handled and length of each call
 - 1.4.5.1.7.3 Remarks
 - 1.4.5.1.7.3.1 Multiple date range, time range, OCCs, Route Groups and Categories are allowed for comparison across various comparison groups.
 - 1.4.5.1.7.3.2 System shall keep a profile of user selection criteria
 - 1.4.5.1.7.4 Used By
 - 1.4.5.1.7.4.1 Depots, LW, Traffic
- 1.4.5.1.8 Dispatcher performance report – Attendance Record
 - 1.4.5.1.8.1 Selection Criteria
 - 1.4.5.1.8.1.1 Operating Date Range
 - 1.4.5.1.8.1.2 OCC
 - 1.4.5.1.8.1.3 Route Group

Description of System Functions

- 1.4.5.1.8.1.4 Staff No. / Name
- 1.4.5.1.8.2 Output
 - 1.4.5.1.8.2.1 Operating Date
 - 1.4.5.1.8.2.2 OCC
 - 1.4.5.1.8.2.3 Staff No./Name
 - 1.4.5.1.8.2.4 Working Days
 - 1.4.5.1.8.2.5 Red Circle Days
 - 1.4.5.1.8.2.6 SL
 - 1.4.5.1.8.2.7 CL
 - 1.4.5.1.8.2.8 Injury Leave
 - 1.4.5.1.8.2.9 Leaving Work Early
 - 1.4.5.1.8.2.10 Quit While on-duty
- 1.4.5.1.8.3 Remarks
 - 1.4.5.1.8.3.1 Multiple date range, time range, OCCs, Route Groups and Categories are allowed for comparison across various comparison groups.
 - 1.4.5.1.8.3.2 System shall keep a profile of user selection criteria
- 1.4.5.1.8.4 Used By
 - 1.4.5.1.8.4.1 Depots, LW, Traffic
- 1.4.5.2 Analysis Reports
 - 1.4.5.2.1 Journey time analysis report
 - 1.4.5.2.1.1 Selection Criteria
 - 1.4.5.2.1.1.1 Operating Date Range
 - 1.4.5.2.1.1.2 BC Employee No.
 - 1.4.5.2.1.1.3 Special Day Type – Mon-Fri / Sat. / Sunday&PH / Weekdays
 - 1.4.5.2.1.1.4 Operating Route / Run / Direction
 - 1.4.5.2.1.1.5 Operating Time Range
 - 1.4.5.2.1.1.6 Passing Stops
 - 1.4.5.2.1.1.7 Rule out Stop(s) – allow user to omit stop(s)
 - 1.4.5.2.1.1.8 X-axis – Distance / Time
 - 1.4.5.2.1.2 Output
 - 1.4.5.2.1.2.1 Bus Stop (BSI Stop)
 - 1.4.5.2.1.2.2 Stop by stop traveling time
 - 1.4.5.2.1.2.3 Stop by stop travelled distance
 - 1.4.5.2.1.2.4 Stop by stop average moving speed
 - 1.4.5.2.1.2.5 Stop by stop passenger count
 - 1.4.5.2.1.2.6 A line chart presentation
 - 1.4.5.2.1.2.6.1 Cumulative sum of passenger count against user selected X-axis
 - 1.4.5.2.1.2.6.2 Moving speed against user selected X-axis
 - 1.4.5.2.1.2.6.3 Average moving speed against user selected X-axis of each selected date range
 - 1.4.5.2.1.2.7 Summary
 - 1.4.5.2.1.2.7.1 Cumulative distance in KM
 - 1.4.5.2.1.2.7.2 Total time spend
 - 1.4.5.2.1.2.7.3 Total moving Time
 - 1.4.5.2.1.2.7.4 Total Time idled
 - 1.4.5.2.1.2.7.5 Average Speed
 - 1.4.5.2.1.2.7.6 Average moving speed
 - 1.4.5.2.1.2.7.7 Highest speed
 - 1.4.5.2.1.2.7.8 Average
 - 1.4.5.2.1.2.7.9 Cumulative passenger count
 - 1.4.5.2.1.3 Remarks
 - 1.4.5.2.1.3.1 Multiple date range is allowed for average speed comparison across various periods.
 - 1.4.5.2.1.3.2 Multiple day type is allowed
 - 1.4.5.2.1.3.3 Multiple / broken time range is allowed along a single time period.
 - 1.4.5.2.1.3.4 Allow user to select bus stop(s) on graphical map view

Description of System Functions

- 1.4.5.2.1.4 Used By
 - 1.4.5.2.1.4.1 Depots, LW, Traffic
- 1.4.5.2.2 Prediction of journey time over two locations
 - 1.4.5.2.2.1 Selection Criteria
 - 1.4.5.2.2.1.1 Operating Date Range
 - 1.4.5.2.2.1.2 BC Employee No.
 - 1.4.5.2.2.1.3 Special Day Type – Mon-Fri / Sat. / Sunday&PH / Weekdays
 - 1.4.5.2.2.1.4 Operating Route / Run / Direction
 - 1.4.5.2.2.1.5 Operating Time Range
 - 1.4.5.2.2.1.6 Passing Stops
 - 1.4.5.2.2.1.7 Rule out Stop(s) – allow user to omit stop(s)
 - 1.4.5.2.2.1.8 Punctuality %
 - 1.4.5.2.2.2 Output
 - 1.4.5.2.2.2.1 Bus Stop (BSI Stop)
 - 1.4.5.2.2.2.2 Punctuality – less than 45%
 - 1.4.5.2.2.2.3 Punctuality – less than 50%
 - 1.4.5.2.2.2.4 Punctuality – less than 55%
 - 1.4.5.2.2.2.5 Punctuality – less than 60%
 - 1.4.5.2.2.2.6 :
 - 1.4.5.2.2.2.7 Punctuality – less than 90%
 - 1.4.5.2.2.2.8 Punctuality – less than 95%
 - 1.4.5.2.2.2.9 Punctuality – greater than and equal to 95%
 - 1.4.5.2.2.2.10 Summary
 - 1.4.5.2.2.2.10.1 Cumulative distance in KM
 - 1.4.5.2.2.2.10.2 Total traveling time
 - 1.4.5.2.2.2.10.3 Total moving Time
 - 1.4.5.2.2.2.10.4 Total Time idled
 - 1.4.5.2.2.2.10.5 Average Speed
 - 1.4.5.2.2.2.10.6 Average moving speed
 - 1.4.5.2.2.2.10.7 Highest speed
 - 1.4.5.2.2.2.10.8 Average RMP
 - 1.4.5.2.2.2.10.9 Cumulative passenger count
 - 1.4.5.2.2.3 Remarks
 - 1.4.5.2.2.3.1 Multiple day type is allowed
 - 1.4.5.2.2.3.2 Multiple / broken time range is allowed along a single time period.
 - 1.4.5.2.2.3.3 Allow user to select bus stop(s) on graphical map view
 - 1.4.5.2.2.4 Used By
 - 1.4.5.2.2.4.1 Depots, LW, Traffic
- 1.4.5.2.3 Journey time comparison report
 - 1.4.5.2.3.1 Selection Criteria
 - 1.4.5.2.3.1.1 Operating Date Range
 - 1.4.5.2.3.1.2 Main Depot / Zone
 - 1.4.5.2.3.1.3 Operating Route / Run / Direction
 - 1.4.5.2.3.1.4 Operating Time Range
 - 1.4.5.2.3.1.5 Passing Stops
 - 1.4.5.2.3.1.6 Rule out Stop(s) – allow user to omit stop(s)
 - 1.4.5.2.3.1.7 Punctuality range
 - 1.4.5.2.3.2 Output
 - 1.4.5.2.3.2.1 Route
 - 1.4.5.2.3.2.2 Stops that average punctuality below selected punctuality range
 - 1.4.5.2.3.2.3 Stops that average punctuality fall within selected punctuality range
 - 1.4.5.2.3.2.4 Stops that average punctuality higher than selected punctuality range

Description of System Functions

- 1.4.5.2.3.3 Remarks
 - 1.4.5.2.3.3.1 Multiple route no. is allowed
 - 1.4.5.2.3.3.2 Running No. is optionally
 - 1.4.5.2.3.3.3 Multiple / broken time range is allowed along a single time period.
 - 1.4.5.2.3.3.4 Allow user to select bus stop(s) on graphical map view
 - 1.4.5.2.3.3.5 Consecutive stops that fall in to the same punctuality group will be grouped and reported together
- 1.4.5.2.3.4 Used By
 - 1.4.5.2.3.4.1 Depots, LW, Traffic
- 1.4.5.2.4 Daily Lost Trip and Journey Time Analysis
 - 1.4.5.2.4.1 Selection Criteria
 - 1.4.5.2.4.1.1 Operating Date Range
 - 1.4.5.2.4.1.2 Main Depot
 - 1.4.5.2.4.1.3 Operating Time Period – default 4 time periods for user selection but can be modified
 - 1.4.5.2.4.1.4 Lost Trip % - Internal / External
 - 1.4.5.2.4.2 Output
 - 1.4.5.2.4.2.1 Route No.
 - 1.4.5.2.4.2.2 Direction
 - 1.4.5.2.4.2.3 Scheduled Journey Time
 - 1.4.5.2.4.2.4 Average Journey Time
 - 1.4.5.2.4.2.5 Scheduled Trip
 - 1.4.5.2.4.2.6 Actual Trip
 - 1.4.5.2.4.2.7 Lost Trip %
 - 1.4.5.2.4.2.8 Special Incident – display any incident recorded within selected date/time range (if any)
 - 1.4.5.2.4.3 Remarks
 - 1.4.5.2.4.3.1 Lost trip % will being calculated based on Internal / External formula
 - 1.4.5.2.4.3.2 Break by Operating Date, Main Depot
 - 1.4.5.2.4.4 Used By
 - 1.4.5.2.4.4.1 Depots, LW, Traffic
- 1.4.5.2.5 Daily Lost Trip Analysis by Special Incident
 - 1.4.5.2.5.1 Selection Criteria
 - 1.4.5.2.5.1.1 Operating Date Range
 - 1.4.5.2.5.1.2 Main Depot
 - 1.4.5.2.5.1.3 Operating Time Period – default 4 time period for user selection but can be modified
 - 1.4.5.2.5.1.4 Special Incident – All or single selection
 - 1.4.5.2.5.1.5 Lost Trip % - Internal / External
 - 1.4.5.2.5.2 Output
 - 1.4.5.2.5.2.1 Incident Type
 - 1.4.5.2.5.2.2 Route No.
 - 1.4.5.2.5.2.3 Lost Trip %
 - 1.4.5.2.5.3 Remarks
 - 1.4.5.2.5.3.1 Lost trip % will being calculated based on Internal / External formula
 - 1.4.5.2.5.4 Used By
 - 1.4.5.2.5.4.1 Depots, LW, Traffic
- 1.4.5.2.6 Bus breakdown tendency
 - 1.4.5.2.6.1 Selection Criteria
 - 1.4.5.2.6.1.1 BC Employee No.
 - 1.4.5.2.6.1.2 Bus No.
 - 1.4.5.2.6.1.3 Route No.
 - 1.4.5.2.6.1.4 Operating Date Range
 - 1.4.5.2.6.1.5 Street Name
 - 1.4.5.2.6.1.6 Bus Type
 - 1.4.5.2.6.1.7 Option to show affected Trip only

Description of System Functions

- 1.4.5.2.6.1.8 Breakdown by – Bus Type, Street, Operating Route, BC Employee No., Bus No.
 - 1.4.5.2.6.2 Output
 - 1.4.5.2.6.2.1 Operating Date
 - 1.4.5.2.6.2.2 Bus No.
 - 1.4.5.2.6.2.3 Bus Operating Route
 - 1.4.5.2.6.2.4 Major breakdown item
 - 1.4.5.2.6.2.5 Action Taken
 - 1.4.5.2.6.2.6 Breakdown Summary
 - 1.4.5.2.6.3 Remarks
 - 1.4.5.2.6.3.1 Bus breakdown items shall be interfaced from BMS
 - 1.4.5.2.6.3.2 Arrival time is deduced from the telematics data or Wi-Fi data where the former takes precedence
 - 1.4.5.2.6.3.3 A delay of 2 days of bus breakdown information is expected
 - 1.4.5.2.6.4 Used By
 - 1.4.5.2.6.4.1 Depots, LW, Traffic
 - 1.4.5.3 Miscellaneous Reports
 - 1.4.5.3.1 Average Passenger Boarding by Route by Bus Stop
 - 1.4.5.3.1.1 Selection Criteria
 - 1.4.5.3.1.1.1 Operating date range
 - 1.4.5.3.1.1.2 Operating Route No.
 - 1.4.5.3.1.2 Output
 - 1.4.5.3.1.2.1 Operating Route No.
 - 1.4.5.3.1.2.2 Journey Distance
 - 1.4.5.3.1.2.3 Bus Stops (BSI Code/Stop Name) in operating sequence
 - 1.4.5.3.1.2.4 Average no. of passenger(s) across hourly period
 - 1.4.5.3.1.2.5 Summary
 - 1.4.5.3.1.2.5.1 All day total by bus stop
 - 1.4.5.3.1.2.5.2 Average by bus stop by operating time period
 - 1.4.5.3.1.3 Used By
 - 1.4.5.3.1.3.1 Depots, LW, Traffic
 - 1.4.5.3.2 Passenger Boarding by Route by Bus Stop Comparison across various operating time period
 - 1.4.5.3.2.1 Selection Criteria
 - 1.4.5.3.2.1.1 Operating date range (allow multiple)
 - 1.4.5.3.2.1.2 Operating Route No.
 - 1.4.5.3.2.2 Output
 - 1.4.5.3.2.2.1 Operating Route No.
 - 1.4.5.3.2.2.2 Bus Stops (BSI Code/Stop Name) in operating sequence
 - 1.4.5.3.2.2.3 Passenger Boarding Summary of each given time range
 - 1.4.5.3.2.2.3.1 All day total by bus stop
 - 1.4.5.3.2.2.3.2 Average passenger boarding by bus stop by 4 operating time periods
 - 1.4.5.3.2.3 Used By
 - 1.4.5.3.2.3.1 Depots, LW, Traffic
- 1.4.5.3.3 Boarding survey statistic – Passenger Boarding by Bus Stop
 - 1.4.5.3.3.1 Selection Criteria
 - 1.4.5.3.3.1.1 Operating Date Range
 - 1.4.5.3.3.1.2 Comparison Bus Route and Stop (multiple)
 - 1.4.5.3.3.1.2.1 Operating Route No.
 - 1.4.5.3.3.1.2.2 Bus Stop
 - 1.4.5.3.3.2 Output
 - 1.4.5.3.3.2.1 Route No.
 - 1.4.5.3.3.2.2 Bus No.
 - 1.4.5.3.3.2.3 Bus Arrival Time
 - 1.4.5.3.3.2.4 No. of passenger aboard at that particular bus stop

Description of System Functions

- 1.4.5.3.3.2.5 Passenger Boarding Summary of each given time range
 - 1.4.5.3.3.2.5.1 All day total by bus stop
 - 1.4.5.3.3.2.5.2 Average passenger boarding by bus stop by 4 operating time periods
- 1.4.5.3.3.3 Used By
 - 1.4.5.3.3.3.1 Depots, LW, Traffic
- 1.4.5.3.4 Overnight parking summary by parking location
 - 1.4.5.3.4.1 Selection Criteria
 - 1.4.5.3.4.1.1 Operating date
 - 1.4.5.3.4.1.2 Main Depot / Depot
 - 1.4.5.3.4.2 Output
 - 1.4.5.3.4.2.1 Depot
 - 1.4.5.3.4.2.2 Bus No.
 - 1.4.5.3.4.2.3 Bus Duty
 - 1.4.5.3.4.2.4 Bus Duty sign-off time
 - 1.4.5.3.4.2.5 Scheduled parking location
 - 1.4.5.3.4.2.6 Bus order (if any)
 - 1.4.5.3.4.3 Remarks
 - 1.4.5.3.4.3.1 System will report buses overnight parking location according to current bus duty assignment and orders.
 - 1.4.5.3.4.4 Used By
 - 1.4.5.3.4.4.1 Depots, LW, Traffic
- 1.4.5.3.5 Survey enquiry report
 - 1.4.5.3.5.1 Selection Criteria
 - 1.4.5.3.5.1.1 Operating Date Range
 - 1.4.5.3.5.1.2 Operating Time Range
 - 1.4.5.3.5.1.3 Operating Route No. (optional)
 - 1.4.5.3.5.1.4 Survey items
 - 1.4.5.3.5.1.4.1 Wheelchair
 - 1.4.5.3.5.1.4.2 Octopus checking status
 - 1.4.5.3.5.1.4.3 Breakdown of equipment
 - 1.4.5.3.5.2 Output
 - 1.4.5.3.5.2.1 Operating date
 - 1.4.5.3.5.2.2 Depot
 - 1.4.5.3.5.2.3 Bus No.
 - 1.4.5.3.5.2.4 Report Item
 - 1.4.5.3.5.2.5 Report Time
 - 1.4.5.3.5.2.6 Affected Bus Duty
 - 1.4.5.3.5.2.7 Affected BC Employee No.
 - 1.4.5.3.5.2.8 Departure Time
 - 1.4.5.3.5.3 Remarks
 - 1.4.5.3.5.3.1 Multiple Time Range is allowed
 - 1.4.5.3.5.4 Used By
 - 1.4.5.3.5.4.1 Depots, LW, Traffic
- 1.4.5.4 Contingency Report
 - 1.4.5.4.1 Snapshot of Working Timetable – Time View
 - 1.4.5.4.1.1 Selection Criteria
 - 1.4.5.4.1.1.1 Operating Date
 - 1.4.5.4.1.1.2 Main Depot / Depot
 - 1.4.5.4.1.2 Output
 - 1.4.5.4.1.2.1 Operating Date
 - 1.4.5.4.1.2.2 Operating Route No.
 - 1.4.5.4.1.2.3 Operating Bus No.
 - 1.4.5.4.1.2.4 Operating BC Employee No. / Name & BC Duty (Route/Run/Shift)

Description of System Functions

- 1.4.5.4.1.2.5 Bus Duty – Route & Run No.
- 1.4.5.4.1.2.6 Duty activity – Pay Trip / Light-Run / Dead-Run
- 1.4.5.4.1.2.7 Scheduled Departure Time
- 1.4.5.4.1.2.8 Scheduled Departure Location
- 1.4.5.4.1.2.9 Scheduled Termini Location
- 1.4.5.4.1.2.10 Indicator of Meal-break
- 1.4.5.4.1.2.11 Indicator of Coffee-break
- 1.4.5.4.1.2.12 Drive-in Bus No.
- 1.4.5.4.1.2.13 Drive-in BC Employee No. / Name & BC Duty (Route/Run/Shift)
- 1.4.5.4.1.2.14 Drive-in Route No.
- 1.4.5.4.1.3 Remarks
 - 1.4.5.4.1.3.1 Redeploy-in & Redeploy-out shall also be included
- 1.4.5.4.1.4 Used By
 - 1.4.5.4.1.4.1 Depots, LW
- 1.4.5.4.2 Snapshot of Working Timetable – Bus View
 - 1.4.5.4.2.1 Selection Criteria
 - 1.4.5.4.2.1.1 Operating Date
 - 1.4.5.4.2.1.2 Main Depot / Depot
 - 1.4.5.4.2.2 Output
 - 1.4.5.4.2.2.1 Operating Date
 - 1.4.5.4.2.2.2 Bus Duty – Route & Run No.
 - 1.4.5.4.2.2.3 Operating Route No.
 - 1.4.5.4.2.2.4 Operating BC Employee No. / Name & BC Duty (Route/Run/Shift)
 - 1.4.5.4.2.2.5 Duty activity – Pay Trip / Light-Run / Dead-Run
 - 1.4.5.4.2.2.6 Scheduled Departure Time
 - 1.4.5.4.2.2.7 Scheduled Departure Location
 - 1.4.5.4.2.2.8 Scheduled Termini Location
 - 1.4.5.4.2.2.9 Indicator of Meal-break
 - 1.4.5.4.2.2.10 Indicator of Coffee-break
 - 1.4.5.4.2.3 Used By
 - 1.4.5.4.2.3.1 Depots, LW
- 1.4.5.4.3 Snapshot of Working Timetable – BC View
 - 1.4.5.4.3.1 Selection Criteria
 - 1.4.5.4.3.1.1 Operating Date
 - 1.4.5.4.3.1.2 Main Depot / Depot
 - 1.4.5.4.3.2 Output
 - 1.4.5.4.3.2.1 Operating Date
 - 1.4.5.4.3.2.2 BC Duty – Route No. / Run No. & Shift
 - 1.4.5.4.3.2.3 BC Employee No. / Name
 - 1.4.5.4.3.2.4 Duty activity – Pay Trip / Light-Run / Dead-Run
 - 1.4.5.4.3.2.5 Operating Route No.
 - 1.4.5.4.3.2.6 Operating Bus No. & Bus Duty
 - 1.4.5.4.3.2.7 Scheduled Departure Time
 - 1.4.5.4.3.2.8 Scheduled Departure Location
 - 1.4.5.4.3.2.9 Scheduled Termini Location
 - 1.4.5.4.3.2.10 Indicator of Meal-break
 - 1.4.5.4.3.2.11 Indicator of Coffee-break
 - 1.4.5.4.3.3 Used By
 - 1.4.5.4.3.3.1 Depots, LW
- 1.4.5.5 Maintenance logs
 - 1.4.5.5.1 Working Timetable maintenance log
 - 1.4.5.5.1.1 Selection Criteria
 - 1.4.5.5.1.1.1 Operating date / time range

Description of System Functions

- 1.4.5.5.1.1.2 Main Depot / Depot
- 1.4.5.5.1.1.3 Operating Route No.
- 1.4.5.5.1.1.4 Bus No.
- 1.4.5.5.1.1.5 BC Employee No.
- 1.4.5.5.1.1.6 Responsible Dispatcher
- 1.4.5.5.1.1.7 Dispatcher
- 1.4.5.5.1.2 Output
 - 1.4.5.5.1.2.1 Modified System Date/time
 - 1.4.5.5.1.2.2 Action logged
 - 1.4.5.5.1.2.3 Operating Date
 - 1.4.5.5.1.2.4 Bus duty
 - 1.4.5.5.1.2.5 Bus no.
 - 1.4.5.5.1.2.6 BC Employee No.
 - 1.4.5.5.1.2.7 Modified By
 - 1.4.5.5.1.2.8 Modifiable items on working timetable
 - 1.4.5.5.1.2.8.1 Activity – Pay trip / Light-run/ Dead-run
 - 1.4.5.5.1.2.8.2 Assigned Bus No.
 - 1.4.5.5.1.2.8.3 Assigned BC Employee No.
 - 1.4.5.5.1.2.8.4 Operating Route no.
 - 1.4.5.5.1.2.8.5 Departure Time
 - 1.4.5.5.1.2.8.6 Start Location
 - 1.4.5.5.1.2.8.7 End Location
 - 1.4.5.5.1.2.8.8 Cancellation reason
 - 1.4.5.5.1.2.8.9 Meal break
 - 1.4.5.5.1.2.8.10 Coffee break
 - 1.4.5.5.1.2.8.11 ... etc.
- 1.4.5.5.1.3 Used By
 - 1.4.5.5.1.3.1 Depots, LW, Traffic
- 1.4.5.5.2 Incident board moving log
 - 1.4.5.5.2.1 Selection Criteria
 - 1.4.5.5.2.1.1 Operating date / time range
 - 1.4.5.5.2.1.2 Main Depot / Depot
 - 1.4.5.5.2.1.3 Operating Route No.
 - 1.4.5.5.2.1.4 Bus No.
 - 1.4.5.5.2.1.5 BC Employee No.
 - 1.4.5.5.2.1.6 Responsible Dispatcher
 - 1.4.5.5.2.1.7 Incident Reference No.
 - 1.4.5.5.2.2 Output
 - 1.4.5.5.2.2.1 Modified System Date/time
 - 1.4.5.5.2.2.2 Action logged
 - 1.4.5.5.2.2.3 Operating Date
 - 1.4.5.5.2.2.4 Affected Bus duty
 - 1.4.5.5.2.2.5 Affected Bus no.
 - 1.4.5.5.2.2.6 Affected BC Employee No.
 - 1.4.5.5.2.2.7 Assigned dispatcher
 - 1.4.5.5.2.2.8 Assigned incident no.
 - 1.4.5.5.2.2.9 Incident Event
 - 1.4.5.5.2.2.10 Event creator
 - 1.4.5.5.2.2.11 Remarks
 - 1.4.5.5.2.3 Used By
 - 1.4.5.5.2.3.1 Depots, LW, Traffic

Description of System Functions

1.4.5.5.3 System Tables Maintenance log

1.4.5.5.3.1 Remarks

1.4.5.5.3.1.1 System will keep a traceable maintenance log of System Tables mentioned in 1.4.1

1.4.5.5.3.2 Used By

1.4.5.5.3.2.1 Depots, LW, Traffic

1.4.5.5.4 Message Dissemination log

1.4.5.5.4.1 Remarks

1.4.5.5.4.1.1 System will keep a traceable maintenance log of message disseminated which are perform via various functions

1.4.5.5.4.2 Used By

1.4.5.5.4.2.1 Depots, LW, Traffic

1.4.5.5.5 Dispatcher roster maintenance log

1.4.5.5.5.1 Remarks

1.4.5.5.5.1.1 System will keep a traceable maintenance log of dispatchers' roster

1.4.5.5.5.2 Used By

1.4.5.5.5.2.1 Depots, LW, Traffic

Description of System Functions

1.4.6 Access Control Function**1.4.6.1 Maintain access control authority (新增/修改用戶資料)**

1.4.6.1.1 This function is used to create user account and assign data access right for a user account

1.4.6.2 Print Access Control maintenance log list (列印用戶資料修改紀錄表)

1.4.6.2.1 This function is used to print the maintenance log for the updates done in 1.4.6.1

1.4.6.3 Assign user to user group (修改用戶與用戶群組關係)

1.4.6.3.1 This function is used to assign a user account to user group(s)

1.4.6.4 Print user group assignment log list (列印用戶與用戶群組關係修改紀錄表)

1.4.6.4.1 This function is used to print the maintenance log for the updates done in 1.4.6.3

1.4.6.5 Maintain user group access authority (修改用戶群組權限)

1.4.6.5.1 This Function is used to create user groups and define their functional access right

1.4.6.6 Print user group access control authority maintenance list (列印用戶群組權限修改紀錄表)

1.4.6.6.1 This function is used to print the maintenance log for the updates done in 1.4.6.5

System Assumptions and Constraints

1.5 System Assumptions and Constraints

1. A route belongs to one and only one depot
2. The migration from TER to ROM is on route basis
3. It is preferable to equip all buses of a route with telematics device before the route is managed by ROM
4. It is preferable to equip the termini of a route with Wi-Fi detection facilities before a route is managed by ROM
5. All graphical user interfaces in ROM will be in Chinese initially. Bilingual version will be provided later through System Change Request (SCR)
6. The sample screens and reports illustrated in this document are subject to fine tuning at implementation stage but all the functionality will be fulfilled as specified
7. The estimated arrival time (ETA) as seen in ROM is retrieved from BOM. The estimation would vary from the actual time to a certain extent. The typical magnitude of variance could be obtained from BOM system.
8. ROM handles jointly operated routes in the following way:
 - ETA information of non-KMB trips is NOT available
 - Scheduled departure time of non-KMB trips is used in headway calculation
9. ROM assumes that digital maps for corporate use has been acquired by the end of November 2014
10. ROM will provide the light-run ETA base on the scheduled light-run travelling time passed from Hustus

System Interface

1.6 System Interface

Inbound interface to ROM:

| From | Interface Contents | Frequency |
|------|---|---------------------|
| BTS | telematics data | real time |
| BOM | All-stop estimated arrival time data (ETA) | real time |
| | Inter-stop journey time | Daily |
| CSS | Octopus card usage transactions | Daily |
| HRM | Employee information | Daily |
| BMS | Bus master, bus type information | Daily |
| | Bus breakdown information | Real time |
| BCS | Working timetable, overnight parking location, lightrun and deadrun travelling time | Daily |
| IAS | Accident rate | Daily |
| TER | Buses at terminus detected thru Wi-Fi | Real time |
| | Bus departure time at termini for routes not yet managed by ROM | Real time |
| | Lost trip statistics | Daily and real time |
| | "Tap card" message(s) for bus captain | Real time |
| TOM | Bus and crew assignment data | Daily and real time |
| | Duty cancellation data | Real time |
| | Training information | Daily |
| OCM | Bus accident information | Real time |
| CST | Route complaint figures | Daily |
| BSI | Bus stop and terminus name and location (textual), bus routing information | Daily |
| RTS | Route master | Daily |

Outbound interface from ROM:

| To | Interface Contents | Frequency |
|-----|---|-----------|
| TER | Messages to terminus (replace TME022) | Real time |
| | Bus departure time at termini for routes already managed by ROM | Real time |
| | Drover card ID of the "tap card" bus captain | Real time |
| TOM | Bus captain quit-duty data | Real time |
| BOM | Bus departure time at termini for routes already managed by ROM | Real time |
| | | |

Systems description:

- BTS - Bus Telematics System
- BOM - Bus Onboard Monitoring System
- CSS - Contactless System Card System
- BCS - Bus and Crew Scheduling System
- OCM - Operations Communication Management System
- TER - Terminus Management System
- TOM - Traffic Operation Management System
- CST - Customer Feedback Management System
- BSI - Bus Stop Inventory System
- HRM - Human Resources Management System
- BMS - Bus Maintenance System
- IAS - Insurance Administration System
- RTS - Route Timetable System

2. System Configuration

2. System configuration

2.1 Hardware Description

ROM System is intended to run on KMB Network with the following hardware requirement:

For general users

- Standard hardware configuration (refer http://it.kmbh.com.hk/Public/IT_Template/Justification.htm)

For dispatchers

- Standard hardware configuration (refer http://it.kmbh.com.hk/Public/IT_Template/Justification.htm) plus 2 additional monitors and a graphic card support up to 4 monitors

For the terminus PC (for BC to tap card to report arrival)

- Standard hardware configuration for a TER terminus PC plus a number pad.
- As at September 2014, the standard configuration for TER terminus PC is:
 - DELL OPTIPLEX XE2 SFF Base
 - Intel Core I3-4330 Processor (Dual Core, 4MB Cache, 3.50GHz, w/ HD 4600 Graphics)
 - 1 keyboard (without USB hub), 1 mouse, 2 USB ports and 2 Com ports
 - 2 x 2GB DDR3 1333 MHz SDRam
 - Pre-load Chinese Windows 7 Professional (32bit)
 - 500GB SATA HDD(7,200rpm)
 - Giga Network LAN card
 - VGA/DVI Cable adaptor
 - No CD Rom, No DVD Rom, No 3.5" floppy drive
 - 2 x display port to dvi adaptor
 - With built-in VGA port and built-in display port
 - Sound card and internal speaker
 - Dell Dust Filter for small form factor optiplex XE
 - Dell Professional P1914S 19" W UltraSharp LCD or equivalent
 - Analog RGB and Digital DVI-D
 - Height-adjustable stand (130 mm up or down) allows users to set the monitor to their own comfort level
 - VESA compliant 100 mounting

2.2 Software Description

ROM System will utilize the following software:

- MS SQL Server
- MS .net framework
- GIS tools

3. Contact Points

3. Contact Points

3.1 User Contact Point

| | | | |
|----------------------|---|-------------------|--------------|
| Traffic Department | : | Mr. Terry Lo | (27868783) |
| OD Office | : | Ms. Alice Wong | (27868825) |
| Shatin Depot | : | Mr. Fung Siu Hung | (29468012) |
| Kowloon Bay Depot | : | Mr. Kwk Yik Sing | (34067006) |
| Lai Chi Kok Depot | : | Mr. Ken Wong | (34731918) |
| Tuen Mun Depot | : | Mr. Kelvin Yeung | (34067708) |
| Long Win Bus Company | : | Mr. Kelvin Mak | (27085634) |

3.2 IT Contact Point

| | | | |
|--|---|--------------------|--------------|
| Handle system change request and enquiries | | | |
| . Project Leader | : | Mr. Chan Chung Lim | (27868852) |
| . Assistant Project Leader | : | Ms. Grace Woo | (27868851) |

4. System Security

4. System security

- 4.1 The access right in ROM is controlled in 2 aspects – function and data. Functional aspect means which windows are allowed for a user to open whereas data aspect means the scope of data a user is allowed to view or update.
- 4.2 Functional access right is controlled by user group. A user group is allowed to use a pre-defined set of system functions. A user may belong to one or more user groups. If a user belongs to more than one user group, he/she is entitled to the functions of all his/her user groups.
- 4.3 Data access right is defined by which depot's data a user is allowed to update or browse. It is defined for each individual user, not for user group.
- 4.4 One master user for each department. The master user can create users with access right up to his/her own. There are logs for creation/maintenance of user accounts.
- 4.5 The master user can delegate the right to create user accounts to a descendant user but its descendant has no right to do so.
- 4.6 The parent user can enquire/amend/delete any descendant user but it cannot view the password of the user.
- 4.7 Each ROM user is prompted to change password every 6 months. If the password is not changed after 9 months, the user id. will be disabled.
- 4.8 Password must not be less than 5 characters.
- 4.9 User may not use previous 3 passwords.
- 4.10 Anti-virus measures are taken for files updated on local machine or on network servers.
- 4.11 A High Availability architecture will be implemented to ensure that the database server is always up and running. In case of disaster at HQ, user may switch to operate at I.T. Back-up Site without loss of data.

5. General User Responsibilities

5. General User Responsibilities

1. Assign password to authorized personnel only and control the system functions that can be performed by each person.
2. After online maintenance is performed, user should print out the log list and verify whether there is any data entry error.
3. Diagnose any error messages and consult the project team if necessary.
4. Train colleagues who are new to the system so that they may pick up in shortest time.
5. Always logoff the application when you are not using it.

CONFIDENTIAL

6. Data Retention Policy

6. Data Retention Policy

| Data Category | Retention Period |
|-----------------------|------------------|
| Trip operating data | 18 months |
| Maintenance log | 6 months |
| Daily back-up tapes | 30 days |
| Monthly back-up tapes | 2 years |

CONFIDENTIAL

7. System Functions Section

Summary of System Functions

ROM System Proposal System Functions Section

7.1 Summary of System Functions

| Function | Description | Sample | Used By | | | |
|------------------------------------|--|---------|---------|----|---------|-----|
| | | | Depots | LW | Traffic | ODO |
| 1.4.1 Reference Tables maintenance | | | | | | |
| 1.4.1.1 | Maintain OCC Table | N/A | X | X | | |
| 1.4.1.2 | Maintain System Parameters Table | N/A | X | X | X | |
| 1.4.1.3 | Maintain Route Table | N/A | X | X | | |
| 1.4.1.4 | Maintain Bus Captain Table | N/A | X | X | | |
| 1.4.1.5 | Maintain Incident Nature Table | N/A | | | X | |
| 1.4.1.6 | Maintain Incident Event Table | N/A | | | X | |
| 1.4.1.7 | Maintain resources hunting priority score settings | N/A | | | X | |
| 1.4.1.2 | Maintain incident severity score settings | N/A | | | X | |
| 1.4.2 Real-time Bus Monitoring | | | | | | |
| 1.4.2.1 | Bus Display on map view | 7.2.1.1 | X | X | X | X |
| 1.4.2.2 | Bus Display on line chart | 7.2.1.2 | X | X | X | X |
| 1.4.3 Departure Management | | | | | | |
| 1.4.3.1 | Incident Board | 7.2.2.1 | X | X | X | X |
| 1.4.3.2 | Route Performance Board | 7.2.2.2 | X | X | X | X |
| 1.4.3.3 | Arrival/Departure Board | 7.2.2.8 | X | X | X | X |
| 1.4.3.4 | Working Timetable Maintenance | 7.2.2.9 | X | X | | |
| 1.4.3.5 | Message dissemination to OCC | 7.2.2.4 | | | X | |
| 1.4.3.6 | Message dissemination to Bus Captain | 7.2.2.5 | X | X | X | |
| 1.4.3.7 | Arrival Reporting by Bus Captains | 7.2.2.6 | X | X | | |

Summary of System Functions

ROM System Proposal System Functions Section

| Function | Description | Sample | Used By | | | |
|--|--|--------|---------|----|---------|-----|
| | | | Depots | LW | Traffic | ODO |
| 1.4.3.8 | Dispatcher Sign-out Procedure | N/A | X | X | | |
| 1.4.4 Dispatchers Management Functions | | | | | | |
| 1.4.4.1 | Maintain dispatcher table | N/A | X | X | | |
| 1.4.4.2 | Maintain Shift duration table | N/A | X | X | | |
| 1.4.4.3 | Import/Maintain the duty roster of dispatchers | N/A | X | X | | |
| 1.4.4.4 | Maintain the working status of dispatcher | N/A | X | X | | |
| 1.4.4.5 | Re-assignment of dispatcher responsibility | N/A | X | X | | |
| 1.4.5 Reporting | | | | | | |
| 1.4.5.1 | Monitoring Reports | N/A | X | X | X | X |
| 1.4.5.1.1 | List of BCs who are willing / not willing to run extra trips or redeployment | N/A | X | X | X | X |
| 1.4.5.1.2 | Prompt list of BCs / trips / routes with abnormal departure or arrival records | N/A | X | X | X | X |
| 1.4.5.1.3 | Prompt list of BCs with abnormal driving behaviour | N/A | X | X | X | X |
| 1.4.5.1.4 | Bus breakdown statistics analysis by reporting BC | N/A | X | X | X | X |
| 1.4.5.1.5 | Route performance analysis report | N/A | X | X | X | X |
| 1.4.5.1.6 | Dispatcher performance report – Departure Management | N/A | X | X | X | X |
| 1.4.5.1.7 | Dispatcher performance report – Time to Resolution | N/A | X | X | X | X |
| 1.4.5.1.8 | Dispatcher performance report – Attendance Record | N/A | X | X | X | X |
| 1.4.5.2.1 | Journey time analysis report | N/A | X | X | X | X |
| 1.4.5.2.2 | Prediction of journey time over two locations | N/A | X | X | X | X |
| 1.4.5.2.3 | Journey time comparison report | N/A | X | X | X | X |
| 1.4.5.2.4 | Daily Lost Trip and Journey Time Analysis | N/A | X | X | X | X |
| 1.4.5.2.5 | Daily Lost Trip Analysis by Special Incident | N/A | X | X | X | X |

Summary of System Functions

ROM System Proposal System Functions Section

| Function | Description | Sample | Used By | | | |
|-----------|---|--------|---------|----|---------|-----|
| | | | Depots | LW | Traffic | ODO |
| 1.4.5.2.6 | Bus breakdown tendency | N/A | X | X | X | X |
| 1.4.5.3.1 | Average Passenger Boarding by Route by Bus Stop | N/A | X | X | X | X |
| 1.4.5.3.2 | Passenger Boarding by Route by Bus Stop Comparison across various operating time period | N/A | X | X | X | X |
| 1.4.5.3.3 | Boarding survey statistic – Passenger Boarding by Bus Stop | N/A | X | X | X | X |
| 1.4.5.3.4 | Overnight parking summary by parking location | N/A | X | X | X | X |
| 1.4.5.3.5 | Survey enquiry report | N/A | X | X | X | X |
| 1.4.5.4 | Contingency Report | N/A | X | X | X | X |
| 1.4.5.5.1 | Working Timetable maintenance log | N/A | X | X | X | X |
| 1.4.5.5.2 | Incident board moving log | N/A | X | X | X | X |
| 1.4.5.2 | Analysis Reports | N/A | X | X | X | X |
| 1.4.5.3 | Miscellaneous Reports | N/A | X | X | X | X |
| 1.4.5.4 | Contingency Reports | N/A | X | X | X | X |
| 1.4.5.5 | Maintenance Logs | N/A | X | X | X | X |

Real-time Bus Monitoring

7.2 Sample of System Functions

7.2.1 Real-time Bus Monitoring

7.2.1.1 Bus Display on map view

7.2.1.1.1 General View

日期:
20-08-2014

時間:
: - :

路線:
1A
7

方向:
尖沙咀
尖沙咀

車牌:
HR7614
NA8693
KL1584
HP4367
HK5581
PB1632

車長:
77425
6628
65138

系統時間: 09:03

1A/31: RH7614

車長: 77425 陳國明
車長崗位: 1A/05/早

行車速度: 68 km/hr (記錄時間: 09:02)
預計到達金馬倫道時間: 09:05

本車設有: 超低地台

(滑鼠點擊巴士)

各路線到站時間:

| 路線 | 前一班 | 下一班 |
|------|-----------|-----------|
| 1 | 09/ 09:01 | 13/ 09:21 |
| 2 | 05/ 08:55 | 03/ 09:10 |
| 234X | 11/ 09:08 | 17/ 09:18 |
| : | : | : |

(滑鼠點擊巴士站)

1. 發放信息

(滑鼠右鍵點擊)

預計各路線到站時間:

| 路線 | 下一班 |
|------|-----------|
| 1 | 03/ 09:21 |
| 234X | 08/ 09:18 |
| 5A | 09/ 09:11 |
| : | : |

士啤車: 士啤車長:
----- 70135, 75386

(滑鼠點擊巴士總站)

此車已逾時 5分鐘未開出

234X/08: PB1632 +5

此車已偏離路線原編路徑

5/02: HP4367

此車已延遲 4分鐘

2/19: HT8817 +4

延遲/逾時車輛

Buses off-track

發放信息 (於完成此程車):

車長: 82174

信息內容:

通訊組信息:

...

...

...

交通消息:

...

...

...

臨時改道信息:

1. 廣東道臨時封閉:
2014-08-11 10:30 - 17:00
影響路線: 271
經: 九龍公園徑、廣東道、佐敦道、D3E路、佐敦道、雅翔道及車站緣邊道
經: 車站緣邊道、雅翔道、柯

發放 **取消**

Page 46 of 106

4659

Real-time Bus Monitoring

ROM System Proposal
System Functions Section

7.2.1.1.1 Geo-fencing

日期:
20-08-2014

時間:
: - :

路線: 1A 方向: 尖碼

車牌:
HR7614
NA8693
KL1584
HP4367
HK5581
PB1632

車長:
77425
6628
65138
72161
1834

重播巴士行駛記錄:
時間: HH:MM 至 HH:MM
播放速度: 32X

地理圍欄

地理圍欄

Bus in Service

Bus not in Service

Bus lost of GPS signal

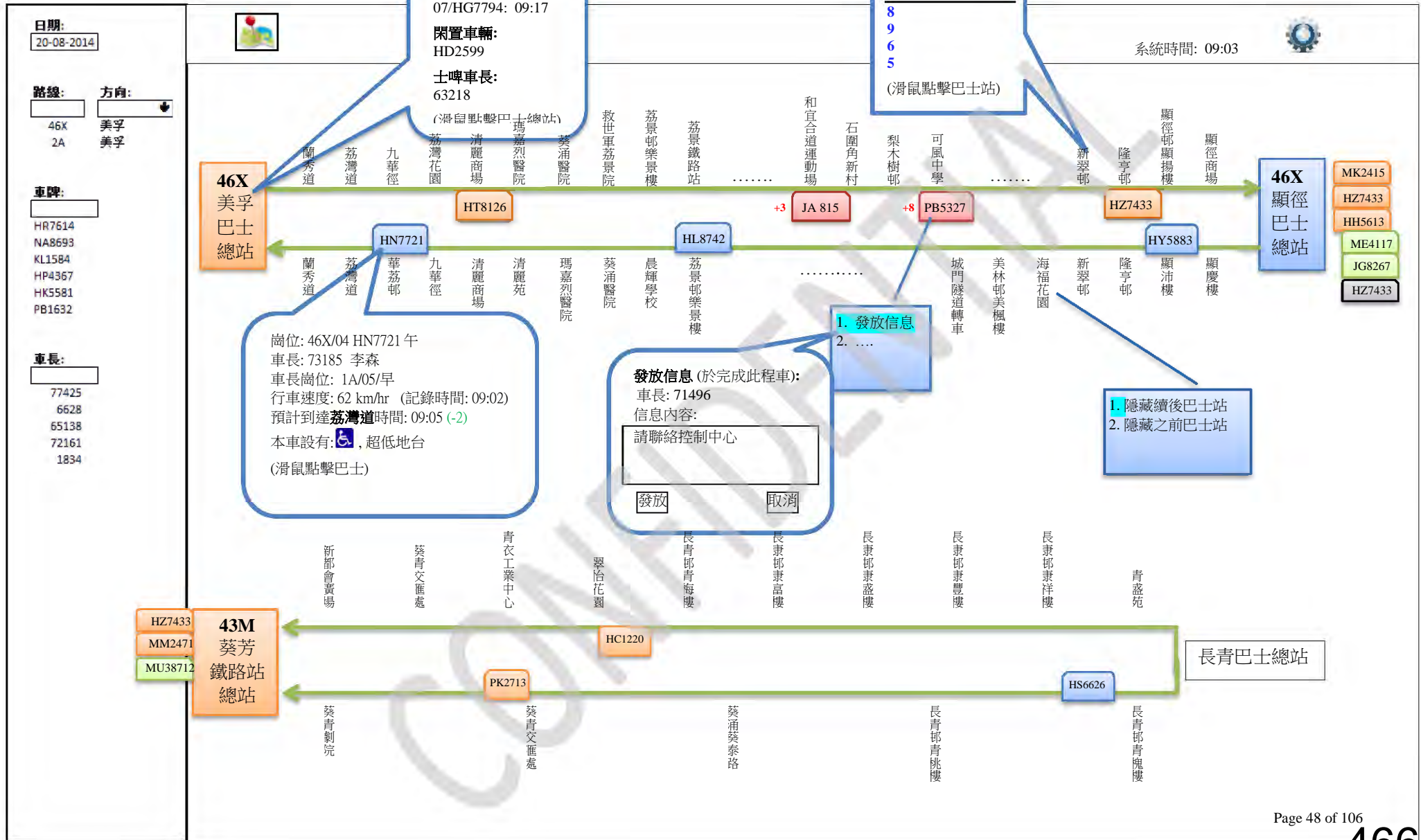
系統時間: 09:03

途經地理圍欄路線:
13X, 208, 215P, 215X,
219X, 224X, 26, 28, 35A,
41A, 5, 5P, 8, 87D, 8A,
98D, 98P

途經地理圍欄巴士:
5C/05: HR3318
26/12: PB20929

Real-time Bus Monitoring

7.2.1.2 Bus Display on line chart



Departure Management

7.2.2 Departure Management

7.2.2.1 Incident Board – Incident Board shown on OCC Display

| 車務控制中心：荔枝角 | | | | | 系統時間： 2014-08-01 09:34:12 | | | |
|------------|-----------------|------|----|-------|---------------------------|-----|----------|-------|
| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 輸入者 | 輸入時間 | 參考編號 |
| 王大同 | 預計延遲到達 | C 8A | 01 | 1155 | RJ6124 | ROM | 09:32:47 | 31668 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | ROM | 09:33:51 | 31675 |
| 李超 | 欠人 | C12 | 05 | 66421 | GZ4853 | TOM | 08:45:20 | 31523 |
| 王大同 | 欠車 | C 2A | 06 | 65656 | KR4350 | TOM | 08:45:20 | 31513 |
| 何小明 | 尚未抵達 影響往後出車 | C40 | 03 | 65318 | KW3187 | 王大同 | 09:18:05 | 31608 |
| 張子良 | 壞車 | C108 | 02 | 73493 | MM2038 | 李超 | 08:12:16 | 31468 |
| 李超 | 劈車 | C42A | 07 | 77251 | JK1583 | 何小明 | 09:12:06 | 31594 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | OCM | 07:45:20 | 31353 |
| 王大同 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 王大同 | 07:50:10 | 31381 |
| 李超 | 行車路線 | C35A | 04 | 73914 | ND6181 | ROM | 09:28:20 | 31618 |
| | 調度員尚未確認 處理事件 | | | | | : | | |
| | | | | | | : | | |
| | | | | | | : | | |

顯示尚待處理事件有:

1. 系統自動偵測
2. 調度員輸入

Departure Management

7.2.2.2 Route Performance Board

車務控制中心: 荔枝角

| 路線 | 往 | 遲 | 早 | -/0/+ | 最長延誤 | | 最長提早 | | 本月累積 失班率 | 當天累積失班率 | | | |
|------|-------|---|---|--------|------|-----|------|-----|-------------|--------------|--------------|--------------|--------------|
| | | | | | 分鐘 | 字軌 | 分鐘 | 字軌 | | 0500-1000 | 1000-1500 | 1500-2000 | 2000-0200 |
| 2A | 美孚 | | | 0/3/2 | -4 | 06 | +9 | L05 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| | 樂華 | | | 2/3/2 | -4 | 06 | +9 | L05 | | | | | |
| 6 | 美孚 | | | 2/8/0 | -9 | 03 | +5 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| | 荔枝角 | | | 3/6/2 | -9 | 03 | +5 | 07 | | | | | |
| 6C | 美孚 | | | 5/6/2 | -12 | S04 | +4 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| | 九龍城碼頭 | | | 3/10/2 | -12 | S04 | +4 | 06 | | | | | |
| 6D | 美孚 | | | 3/3/2 | -8 | 09 | +6 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| | 牛頭角 | | | 1/5/2 | -8 | 09 | +6 | 02 | | | | | |
| 6X | 中間道 | | | 0/4/1 | - | | +3 | 03 | 0 | 0/8 (0%) | - | - | - |
| 28 | 麼地道 | | | 1/6/2 | -4 | 05 | +6 | 01 | 1.34% | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) |
| | 麼地道 | | | 2/6/0 | -4 | 05 | +6 | 01 | | | | | |
| 30 | 長沙灣 | | | 4/2/2 | -6 | 07 | +5 | 03 | 1.84% | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) |
| | 荃威花園 | | | 2/7/0 | -6 | 07 | +5 | 03 | | | | | |
| 38A | 美孚 | | | 0/4/0 | - | | - | | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| | 海濱花園 | | | 0/4/0 | - | | - | | | | | | |
| 46X | 美孚 | | | 3/10/2 | -5 | S11 | +9 | 08 | 1.78% | 4/84 (4.76%) | 4/84 (4.76%) | 4/84 (4.76%) | 4/84 (4.76%) |
| | 顯徑 | | | 2/14/1 | -5 | S11 | +9 | 08 | | | | | |
| 72 | 長沙灣 | | | 3/5/1 | -4 | 05 | +11 | 09 | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| | 太和 | | | 1/3/4 | -4 | 05 | +11 | 09 | | | | | |
| 86 | 美孚 | | | 2/3/2 | -5 | 02 | +7 | S02 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| | 黃泥頭 | | | 1/4/2 | -5 | 02 | +7 | S02 | | | | | |
| 86A | 甘泉街 | | | 0/5/3 | - | | +4 | L03 | 1.91% | 2/49 (4.08%) | 2/49 (4.08%) | 2/49 (4.08%) | 2/49 (4.08%) |
| | 沙田圍 | | | 3/4/2 | - | | +4 | L03 | | | | | |
| 102 | 美孚 | | | 3/13/0 | -4 | 08 | +3 | S05 | 1.58% | 3/36 (8.33%) | 3/36 (8.33%) | 3/36 (8.33%) | 3/36 (8.33%) |
| | 筲箕灣 | | | 1/8/2 | -4 | 08 | +3 | S05 | | | | | |
| 102P | 筲箕灣 | | | 4/12/3 | -6 | S13 | +4 | 06 | 1.91% | 2/49 (4.08%) | 2/49 (4.08%) | 2/49 (4.08%) | 2/49 (4.08%) |

Departure Management

7.2.2.3 Dispatcher Monitor Board

系統顯示所有調度員負責之事件。
(包括已/未確認之事故.)

調度員:

事件狀況:

處理中/ 未確認 / 處理完畢 / 所有

系統時間: 2014-08-01 09:34:12

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

確認處理事件
轉駁至調度員
拒絕處理事件
事件無須處理
事件處理完畢
處理事件


系統將轉換至
詳細行車時間
表

系統將轉換至此線次調度員, 如沒有可安排之調度員, 事件將交由控制中心指揮長安排/處理.

| 路線 | 往 | 遲 | 早 | -0/+ | 最長延誤 | | 最長提早 | | 本月累積失班率 | 當天累積失班率 | | | |
|-----|-------|---|---|-------|------|-----|------|-----|---------|--------------|--------------|--------------|--------------|
| | | | | | 分鐘 | 字軌 | 分鐘 | 字軌 | | 0500-1000 | 1000-1500 | 1500-2000 | 2000-0200 |
| 2A | 美孚 | | | 0/3/2 | -4 | 06 | +9 | L05 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| | 樂華 | | | 2/3/2 | -4 | 06 | +9 | L05 | | | | | |
| 6 | 美孚 | | | 2/8/0 | -9 | 03 | +5 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| | 荔枝角 | | | 3/6/2 | -9 | 03 | +5 | 07 | | | | | |
| 6D | 美孚 | | | 3/3/2 | -8 | 09 | +6 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| | 牛頭角 | | | 1/5/2 | -8 | 09 | +6 | 02 | | | | | |
| 6X | 中間道 | | | 0/4/1 | - | | +3 | 03 | 0 | 0/8 (0%) | - | - | - |
| 28 | 麼地道 | | | 1/6/2 | -4 | 05 | +6 | 01 | 1.34% | 2/47 | 主要處理路線 | | 2/47 (4.26%) |
| | 麼地道 | | | 2/6/0 | -4 | 05 | +6 | 01 | | | | | 2/47 (4.26%) |
| 38A | 美孚 | | | 0/4/0 | - | | - | | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| | 海濱花園 | | | 0/4/0 | - | | - | | | | | | |
| 2 | 長沙灣 | | | 3/5/1 | -4 | 05 | +11 | 09 | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| | 太和 | | | | -4 | 05 | +11 | 09 | | | | | |
| 5 | 美孚 | | | | -5 | 02 | +7 | S02 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| | 黃泥頭 | | | | -5 | 02 | +7 | S02 | | | | | |
| 6C | 美孚 | | | | -12 | S04 | +4 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| | 九龍城碼頭 | | | | -12 | S04 | +4 | 06 | | | | | |
| 30 | 長沙灣 | | | 4/2/2 | -6 | 07 | +5 | 03 | 1.84% | 2/24 | 支援處理路線 | | 2/24 (8.33%) |
| | 荃威花園 | | | 2/7/0 | -6 | 07 | +5 | 03 | | | | | 2/24 (8.33%) |

Departure Management

7.2.2.3.1 Record call-in incident

調度員: 事故狀況: 

系統時間: 2014-08-01 09:34:12

| 調度員 | 事 | 車輛 | 車長 | 已記錄事件: | 搜尋 | 次(車) | 受影 | 班 | 次(人) |
|-----|-----|----|----|--------|----|------|------|----|-------|
| | | | | | | 開出 | 路 | 軌 | 開出 |
| 張子良 | 延遲抵 | | | | | 15 | | 02 | 15:10 |
| 張子良 | 壞車 | | | | | | A | 10 | 08:35 |
| 張子良 | 交通意 | | | | | | 8M | 15 | 10:13 |
| 張子良 | 行車過 | | | | | | C43A | 08 | 07:55 |
| 張子良 | 失物處 | | | | | | | | |
| 張子良 | 偏離行 | | | | | | | | |

[新增]事件類別: (壞車/交通意外/失物處理/其他事項)

| 路線 | 往 | 1500-2000 | 2000-0200 |
|-----|----|--------------|--------------|
| 2A | 美 | 2/59 (3.51%) | 2/59 (3.51%) |
| 6 | 樂 | 1/51 (1.96%) | 1/51 (1.96%) |
| 6D | 美 | 0/39 (0%) | 0/39 (0%) |
| 6X | 牛頭 | - | - |
| 28 | 中間 | 2/47 (4.26%) | 2/47 (4.26%) |
| 38A | 麼地 | 1/8 (0%) | 1/8 (0%) |
| 72 | 麼地 | 1/29 (3.45%) | 1/29 (3.45%) |
| 86 | 美 | 0/36 (0%) | 0/36 (0%) |
| 6C | 黃泥 | 3/71 (4.23%) | 3/71 (4.23%) |
| 30 | 美 | 2/24 (8.33%) | 2/24 (8.33%) |

新增事件 - 壞車

車牌: 時間: : 地點 ☐ 站頭

☐ 中途

時間: : 往維修 車長 維修站 / 車廠

時間: : 車長用膳 至 :

時間: : 車長收工

時間: : 車長自行往站頭候命 站頭

時間: : 重新入線 車輛 調頭 / 中途起載

2/7/0 -6 07 +5 03

Departure Management

7.2.2.4 Message dissemination to OCC

訊息發放範圍:

| 路線: | 方向: | 全選 |
|-----|-------|----|
| 2A | 往美孚 | ✓ |
| 2A | 往樂華 | ✓ |
| 6 | 往尖碼 | |
| 6 | 往荔枝角 | |
| 6D | 往牛頭角 | ✓ |
| 6D | 往美孚 | ✓ |
| 6X | 往中間道 | ✓ |
| 6X | 往美孚 | ✓ |
| 905 | 往荔枝角 | ✓ |
| 905 | 往灣仔碼頭 | ✓ |

發放日期: / / 車長編號: 車輛編號: 訊息狀況:

| 開始發放日期 | 發放至 | 訊息內容 | 發放人 | |
|------------------|------------------------|---|------|-------|
| 04/09/2014 18:20 | 全線 | 受鯉安苑對開的爆水管影響，觀塘道往油塘方向擠塞，龍尾：九龍灣港鐵站 | 公司電台 | 修改/復制 |
| 04/09/2014 18:05 | 全線 | 鯉魚門道近鯉安苑因爆水管，往油塘方向只有1條行車線可以通車。將軍澳道下行往觀塘，近翠屏南邨一帶車多行車緩慢。(HKT 18:20) | 公司電台 | 修改/復制 |
| 04/09/2014 18:00 | 107, 170, 671 | 堅拿道天橋往香港仔隧道方向，近軒尼詩道橋面快線有壞車阻路，龍尾：灣仔交匯處。(HKT 18:05) | 公司電台 | 修改/復制 |
| 04/09/2014 17:55 | 62X, 258P, 258D, 259D, | 所有車輛請於觀塘回旋處調頭 | 屯門車務 | 修改/復制 |

發放信息:

發放人或組別:

收件人: 調度員

日期: 88/88/88 - 88/88/88

時段: 99:99 - 99:99

訊息類別: 交通意外 / 壞車 / 修路工程 / 爆水管 / 車務訊息

狀況: 新增 / 清理 / 跟進

內容:

已確認訊息之調度員:

| 調度員 | 確認時間 | OCC |
|-----|------------------|------|
| 李超 | 20-09-2014 10:24 | 荔枝角廠 |
| 王大同 | 20-09-2014 10:24 | 荔枝角廠 |
| 何小明 | 20-09-2014 10:24 | 荔枝角廠 |
| 張子良 | 20-09-2014 10:24 | 荔枝角廠 |

System will display all routes for user selection

Allow user to select affected route(s) by specifying a geofence on the map.

Departure Management

Page 54 of 106

Departure Management

7.2.2.5 OCC Message dissemination

訊息發放範圍:

| 路線: | 方向: | 全選 |
|-----|-------|----|
| 2A | 往美孚 | ✓ |
| 2A | 往樂華 | ✓ |
| 6 | 往尖碼 | |
| 6 | 往荔枝角 | |
| 6D | 往牛頭角 | ✓ |
| 6D | 往美孚 | ✓ |
| 6X | 往中間道 | ✓ |
| 6X | 往美孚 | ✓ |
| 905 | 往荔枝角 | ✓ |
| 905 | 往灣仔碼頭 | ✓ |

Dispatcher responsible routes

發放日期: / /
車長編號:
車輛編號:
訊息狀況: 現行訊息 / 完成訊息 / 所有訊息

| 開始發放日期 | 發放至 | 訊息內容 | 發放人 |
|------------------|-----------------------|---|------|
| 04/09/2014 18:20 | 全線 | 受鯉安苑對開的爆水管影響, 觀塘道往油塘方向擠塞, 龍尾: 九龍灣港鐵站 | 公司電台 |
| 04/09/2014 18:05 | 全線 | 鯉魚門道近鯉安苑因爆水管, 往油塘方向只有1條行車線可以通車。將軍澳道下行往觀塘, 近翠屏南邨一帶車多行車緩慢。(HKT 18:20) | 公司電台 |
| 04/09/2014 18:00 | 107, 170, 671 | 堅拿道天橋往香港仔隧道方向, 近軒尼詩道橋面快線有肇事阻路, 龍尾: 灣仔交匯處。(HKT 18:05) | 公司電台 |
| 04/09/2014 17:55 | 62X, 258P, 258D, 259D | 所有車輛請於觀塘回旋處調頭 | 屯門車務 |

發放訊息:

收件人: 車長 車輛

日期: 88/88/88 - 88/88/88

時段: 即時顯示 / 出車時間 99:99 - 99:99

顯示於: 到站時 / 開車前 行車過時情況下是否顯示: 是/否

訊息嚴重性:

顯示次數: 未來一班 / 未來每一班 / 崗位每次轉換車長的頭班車 / 車長於每崗位的尾班車 / 上段頭車 / 上段尾車 / 下段頭車 / 下段尾車 / 車長整天的頭班車 / 尾班車

訊息類別: 任務指示 / 臨時訊息 / 資料收集 / 安全訊息

回應要求: 需要 / 不需 顯示時限: 秒

回應上一訊息

訊息內容: 請輸入載來客數。 確定鍵 Enter 選項 1

+ 訊息 2: 車上儀器是否有損壞? 1 是 2 否

+ 訊息 3: 損壞儀器項目? Enter 1 1 XXXX 2 XXX 3 XXXXXX

發放

電訊組信息:

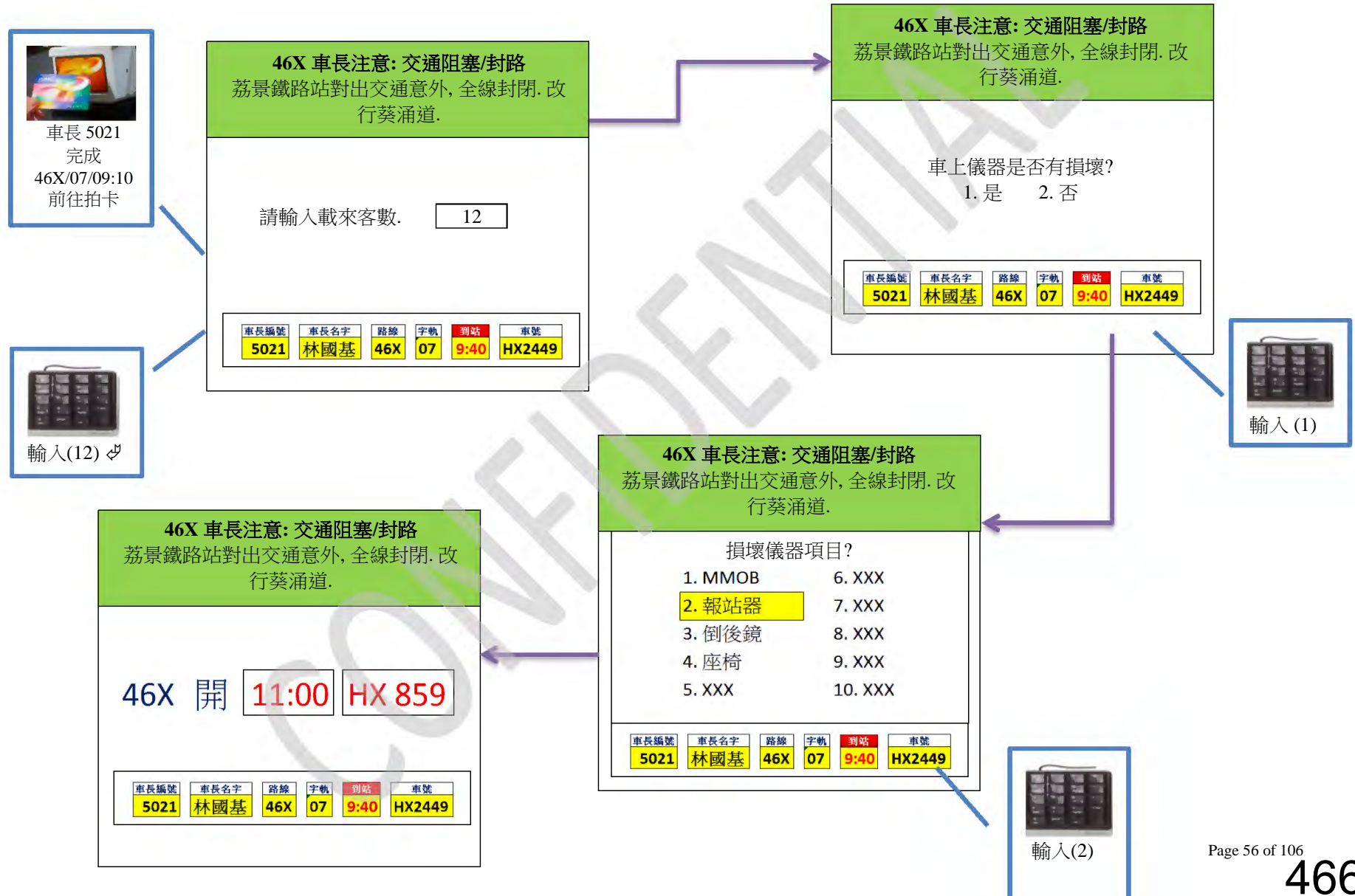
| 類別 | 內容 | 影響路線 | 狀況 | 時間 |
|------|------------|---------------|----|-------|
| 交通意外 | 告士打道去中環 | 101, 103, 10 | 最新 | 12:29 |
| 修路工程 | 太子道西去旺角 | 1, 1A, 2, 2A | 最新 | 12:25 |
| 交通意外 | 窩打老道去油麻地 | 3C, 7, 81C, 8 | 清理 | 11:09 |
| 交通意外 | 橫士巴利道去紅磡 | 5, 5A, 5C, 8 | 清理 | 10:35 |
| 交通意外 | 鯉魚門道去尖沙咀 | - | 清理 | 10:08 |
| 交通意外 | 橫士巴利道去紅磡 | - | 最新 | 10:06 |
| 交通意外 | 何文田學校區 | - | 清理 | 09:39 |
| 交通意外 | 九龍塘學校區 | - | 清理 | 09:39 |
| 交通意外 | 港島北角半山學校區 | - | 清理 | 09:37 |
| 交通意外 | 窩打老道去尖沙咀 | - | 清理 | 09:32 |
| 交通意外 | 鯉魚門道去尖沙咀 | - | 最新 | 09:27 |
| 交通意外 | 加士居道去九龍 | - | 清理 | 09:00 |
| 交通意外 | 吐露港公路去九龍 | - | 清理 | 08:51 |
| 交通意外 | 加士居道去九龍 | - | 最新 | 08:27 |
| 交通意外 | 獅子山隧道公路去九龍 | - | 清理 | 08:05 |
| 交通意外 | 大埔公路去大圍 | - | 跟進 | 08:02 |
| 交通意外 | 龍翔道去荃灣 | - | 最新 | 07:55 |
| 交通意外 | 九龍塘學校區 | - | 最新 | 07:49 |
| 交通意外 | 何文田學校區 | - | 最新 | 07:48 |
| 交通意外 | 大埔公路去大圍 | - | 最新 | 07:45 |
| 交通意外 | 港島北角半山學校區 | - | 最新 | 07:34 |
| 交通意外 | 獅子山隧道公路去九龍 | - | 跟進 | 07:20 |
| 交通意外 | 獅子山隧道公路去九龍 | - | 最新 | 06:58 |
| 修路工程 | 鯉魚門道去油塘 | - | 清理 | 06:00 |

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影響路線 | 響班字軌 | 次(車)開出 | 受影響路線 | 響班字軌 | 次(人)開出 |
|-----|----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|-------|------|--------|-------|------|--------|
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |

Departure Management

7.2.2.6 Arrival Reporting by Bus Captain



Departure Management

ROM System Proposal System Functions Section

7.2.2.7 Multiple Arrival and Departure Board

系統時間: 10:00

14 7
往油蔴地巴士總站

8.

14X 9.

14D 10.

62X 11.

219P 12.

259D 13.

15. 1598

16. 1698

17. 1798

70063

71723

70063

7730

自入車牌:

車牌

K34349

HT 158

H26921

HG3988

HG3606

自入車牌:



6D

| 車牌 | 時間 | 失速/總距離 |
|--------|-------|--------|
| HT 734 | 12:45 | 13:00 |
| HT 734 | 13:00 | 13:15 |
| HT 734 | 13:15 | 13:30 |
| HT 734 | 13:30 | 13:45 |
| HT 734 | 13:45 | 14:00 |
| HT 734 | 14:00 | 14:15 |
| HT 734 | 14:15 | 14:30 |
| HT 734 | 14:30 | 14:45 |
| HT 734 | 14:45 | 15:00 |
| HT 734 | 15:00 | 15:15 |
| HT 734 | 15:15 | 15:30 |
| HT 734 | 15:30 | 15:45 |
| HT 734 | 15:45 | 16:00 |
| HT 734 | 16:00 | 16:15 |
| HT 734 | 16:15 | 16:30 |
| HT 734 | 16:30 | 16:45 |
| HT 734 | 16:45 | 17:00 |
| HT 734 | 17:00 | 17:15 |
| HT 734 | 17:15 | 17:30 |
| HT 734 | 17:30 | 17:45 |
| HT 734 | 17:45 | 18:00 |
| HT 734 | 18:00 | 18:15 |
| HT 734 | 18:15 | 18:30 |
| HT 734 | 18:30 | 18:45 |
| HT 734 | 18:45 | 19:00 |
| HT 734 | 19:00 | 19:15 |
| HT 734 | 19:15 | 19:30 |
| HT 734 | 19:30 | 19:45 |
| HT 734 | 19:45 | 20:00 |
| HT 734 | 20:00 | 20:15 |
| HT 734 | 20:15 | 20:30 |
| HT 734 | 20:30 | 20:45 |
| HT 734 | 20:45 | 21:00 |
| HT 734 | 21:00 | 21:15 |
| HT 734 | 21:15 | 21:30 |
| HT 734 | 21:30 | 21:45 |
| HT 734 | 21:45 | 22:00 |
| HT 734 | 22:00 | 22:15 |
| HT 734 | 22:15 | 22:30 |
| HT 734 | 22:30 | 22:45 |
| HT 734 | 22:45 | 23:00 |
| HT 734 | 23:00 | 23:15 |
| HT 734 | 23:15 | 23:30 |
| HT 734 | 23:30 | 23:45 |
| HT 734 | 23:45 | 24:00 |
| HT 734 | 24:00 | 24:15 |
| HT 734 | 24:15 | 24:30 |
| HT 734 | 24:30 | 24:45 |
| HT 734 | 24:45 | 25:00 |
| HT 734 | 25:00 | 25:15 |
| HT 734 | 25:15 | 25:30 |
| HT 734 | 25:30 | 25:45 |
| HT 734 | 25:45 | 26:00 |
| HT 734 | 26:00 | 26:15 |
| HT 734 | 26:15 | 26:30 |
| HT 734 | 26:30 | 26:45 |
| HT 734 | 26:45 | 27:00 |
| HT 734 | 27:00 | 27:15 |
| HT 734 | 27:15 | 27:30 |
| HT 734 | 27:30 | 27:45 |
| HT 734 | 27:45 | 28:00 |
| HT 734 | 28:00 | 28:15 |
| HT 734 | 28:15 | 28:30 |
| HT 734 | 28:30 | 28:45 |
| HT 734 | 28:45 | 29:00 |
| HT 734 | 29:00 | 29:15 |
| HT 734 | 29:15 | 29:30 |
| HT 734 | 29:30 | 29:45 |
| HT 734 | 29:45 | 30:00 |
| HT 734 | 30:00 | 30:15 |
| HT 734 | 30:15 | 30:30 |
| HT 734 | 30:30 | 30:45 |
| HT 734 | 30:45 | 31:00 |
| HT 734 | 31:00 | 31:15 |
| HT 734 | 31:15 | 31:30 |
| HT 734 | 31:30 | 31:45 |
| HT 734 | 31:45 | 32:00 |
| HT 734 | 32:00 | 32:15 |
| HT 734 | 32:15 | 32:30 |
| HT 734 | 32:30 | 32:45 |
| HT 734 | 32:45 | 33:00 |
| HT 734 | 33:00 | 33:15 |
| HT 734 | 33:15 | 33:30 |
| HT 734 | 33:30 | 33:45 |
| HT 734 | 33:45 | 34:00 |
| HT 734 | 34:00 | 34:15 |
| HT 734 | 34:15 | 34:30 |
| HT 734 | 34:30 | 34:45 |
| HT 734 | 34:45 | 35:00 |
| HT 734 | 35:00 | 35:15 |
| HT 734 | 35:15 | 35:30 |
| HT 734 | 35:30 | 35:45 |
| HT 734 | 35:45 | 36:00 |
| HT 734 | 36:00 | 36:15 |
| HT 734 | 36:15 | 36:30 |
| HT 734 | 36:30 | 36:45 |
| HT 734 | 36:45 | 37:00 |
| HT 734 | 37:00 | 37:15 |
| HT 734 | 37:15 | 37:30 |
| HT 734 | 37:30 | 37:45 |
| HT 734 | 37:45 | 38:00 |
| HT 734 | 38:00 | 38:15 |
| HT 734 | 38:15 | 38:30 |
| HT 734 | 38:30 | 38:45 |
| HT 734 | 38:45 | 39:00 |
| HT 734 | 39:00 | 39:15 |
| HT 734 | 39:15 | 39:30 |
| HT 734 | 39:30 | 39:45 |
| HT 734 | 39:45 | 40:00 |
| HT 734 | 40:00 | 40:15 |
| HT 734 | 40:15 | 40:30 |
| HT 734 | 40:30 | 40:45 |
| HT 734 | 40:45 | 41:00 |
| HT 734 | 41:00 | 41:15 |
| HT 734 | 41:15 | 41:30 |
| HT 734 | 41:30 | 41:45 |
| HT 734 | 41:45 | 42:00 |
| HT 734 | 42:00 | 42:15 |
| HT 734 | 42:15 | 42:30 |
| HT 734 | 42:30 | 42:45 |
| HT 734 | 42:45 | 43:00 |
| HT 734 | 43:00 | 43:15 |
| HT 734 | 43:15 | 43:30 |
| HT 734 | 43:30 | 43:45 |
| HT 734 | 43:45 | 44:00 |
| HT 734 | 44:00 | 44:15 |
| HT 734 | 44:15 | 44:30 |
| HT 734 | 44:30 | 44:45 |
| HT 734 | 44:45 | 45:00 |
| HT 734 | 45:00 | 45:15 |
| HT 734 | 45:15 | 45:30 |
| HT 734 | 45:30 | 45:45 |
| HT 734 | 45:45 | 46:00 |
| HT 734 | 46:00 | 46:15 |
| HT 734 | 46:15 | 46:30 |
| HT 734 | 46:30 | 46:45 |
| HT 734 | 46:45 | 47:00 |
| HT 734 | 47:00 | 47:15 |
| HT 734 | 47:15 | 47:30 |
| HT 734 | 47:30 | 47:45 |
| HT 734 | 47:45 | 48:00 |
| HT 734 | 48:00 | 48:15 |
| HT 734 | 48:15 | 48:30 |
| HT 734 | 48:30 | 48:45 |
| HT 734 | 48:45 | 49:00 |
| HT 734 | 49:00 | 49:15 |
| HT 734 | 49:15 | 49:30 |
| HT 734 | 49:30 | 49:45 |
| HT 734 | 49:45 | 50:00 |
| HT 734 | 50:00 | 50:15 |
| HT 734 | 50:15 | 50:30 |
| HT 734 | 50:30 | 50:45 |
| HT 734 | 50:45 | 51:00 |
| HT 734 | 51:00 | 51:15 |
| HT 734 | 51:15 | 51:30 |
| HT 734 | 51:30 | 51:45 |
| HT 734 | 51:45 | 52:00 |
| HT 734 | 52:00 | 52:15 |
| HT 734 | 52:15 | 52:30 |
| HT 734 | 52:30 | 52:45 |
| HT 734 | 52:45 | 53:00 |
| HT 734 | 53:00 | 53:15 |
| HT 734 | 53:15 | 53:30 |
| HT 734 | 53:30 | 53:45 |
| HT 734 | 53:45 | 54:00 |
| HT 734 | 54:00 | 54:15 |
| HT 734 | 54:15 | 54:30 |
| HT 734 | 54:30 | 54:45 |
| HT 734 | 54:45 | 55:00 |
| HT 734 | 55:00 | 55:15 |
| HT 734 | 55:15 | 55:30 |
| HT 734 | 55:30 | 55:45 |
| HT 734 | 55:45 | 56:00 |
| HT 734 | 56:00 | 56:15 |
| HT 734 | 56:15 | 56:30 |
| HT 734 | 56:30 | 56:45 |
| HT 734 | 56:45 | 57:00 |
| HT 734 | 57:00 | 57:15 |
| HT 734 | 57:15 | 57:30 |
| HT 734 | 57:30 | 57:45 |
| HT 734 | 57:45 | 58:00 |
| HT 734 | 58:00 | 58:15 |
| HT 734 | 58:15 | 58:30 |
| HT 734 | 58:30 | 58:45 |
| HT 734 | 58:45 | 59:00 |
| HT 734 | 59:00 | 59:15 |
| HT 734 | 59:15 | 59:30 |
| HT 734 | 59:30 | 59:45 |
| HT 734 | 59:45 | 60:00 |
| HT 734 | 60:00 | 60:15 |
| HT 734 | 60:15 | 60:30 |
| HT 734 | 60:30 | 60:45 |
| HT 734 | 60:45 | 61:00 |
| HT 734 | 61:00 | 61:15 |
| HT 734 | 61:15 | 61:30 |
| HT 734 | 61:30 | 61:45 |
| HT 734 | 61:45 | 62:00 |
| HT 734 | 62:00 | 62:15 |
| HT 734 | 62:15 | 62:30 |
| HT 734 | 62:30 | 62:45 |
| HT 734 | 62:45 | 63:00 |
| HT 734 | 63:00 | 63:15 |
| HT 734 | 63:15 | 63:30 |
| HT 734 | 63:30 | 63:45 |
| HT 734 | 63:45 | 64:00 |
| HT 734 | 64:00 | 64:15 |
| HT 734 | 64:15 | 64:30 |
| HT 734 | 64:30 | 64:45 |
| HT 734 | 64:45 | 65:00 |
| HT 734 | 65:00 | 65:15 |
| HT 734 | 65:15 | 65:30 |
| HT 734 | 65:30 | 65:45 |
| HT 734 | 65:45 | 66:00 |
| HT 734 | 66:00 | 66:15 |
| HT 734 | 66:15 | 66:30 |
| HT 734 | 66:30 | 66:45 |
| HT 734 | 66:45 | 67:00 |
| HT 734 | 67:00 | 67:15 |
| HT 734 | 67:15 | 67:30 |
| HT 734 | 67:30 | 67:45 |
| HT 734 | 67:45 | 68:00 |
| HT 734 | 68:00 | 68:15 |
| HT 734 | 68:15 | 68:30 |
| HT 734 | 68:30 | 68:45 |
| HT 734 | 68:45 | 69:00 |
| HT 734 | 69:00 | 69:15 |
| HT 734 | 69:15 | 69:30 |
| HT 734 | 69:30 | 69:45 |
| HT 734 | 69:45 | 70:00 |
| HT 734 | 70:00 | 70:15 |
| HT 734 | 70:15 | 70:30 |
| HT 734 | 70:30 | 70:45 |
| HT 734 | 70:45 | 71:00 |
| HT 734 | 71:00 | 71:15 |
| HT 734 | 71:15 | 71:30 |
| HT 734 | 71:30 | 71:45 |
| HT 734 | 71:45 | 72:00 |
| HT 734 | 72:00 | 72:15 |
| HT 734 | 72:15 | 72:30 |
| HT 734 | 72:30 | 72:45 |
| HT 734 | 72:45 | 73:00 |
| HT 734 | 73:00 | 73:15 |
| HT 734 | 73:15 | 73:30 |
| HT 734 | 73:30 | 73:45 |
| HT 734 | 73:45 | 74:00 |
| HT 734 | 74:00 | 74:15 |
| HT 734 | 74:15 | 74:30 |
| HT 734 | 74:30 | 74:45 |
| HT 734 | 74:45 | 75:00 |
| HT 734 | 75:00 | 75:15 |
| HT 734 | 75:15 | 75:30 |
| HT 734 | 75:30 | 75:45 |
| HT 734 | 75:45 | 76:00 |
| HT 734 | 76:00 | 76:15 |
| HT 734 | 76:15 | 76:30 |
| HT 734 | 76:30 | 76:45 |
| HT 734 | 76:45 | 77:00 |
| HT 734 | 77:00 | 77:15 |
| HT 734 | 77:15 | 77:30 |
| HT 734 | 77:30 | 77:45 |
| HT 734 | 77:45 | 78:00 |
| HT 734 | 78:00 | 78:15 |
| HT 734 | 78:15 | 78:30 |
| HT 734 | 78:30 | 78:45 |
| HT 734 | 78:45 | 79:00 |
| HT 734 | 79:00 | 79:15 |
| HT 734 | 79:15 | 79:30 |
| HT 734 | 79:30 | 79:45 |
| HT 734 | 79:45 | 80:00 |
| HT 734 | 80:00 | 80:15 |
| HT 734 | 80:15 | 80:30 |
| HT 734 | 80:30 | 80:45 |
| HT 734 | 80:45 | 81:00 |
| HT 734 | 81:00 | 81:15 |
| HT 734 | 81:15 | 81:30 |
| HT 734 | 81:30 | 81:45 |
| HT 734 | 81:45 | 82:00 |
| HT 734 | 82:00 | 82:15 |
| HT 734 | 82:15 | 82:30 |
| HT 734 | 82:30 | 82:45 |
| HT 734 | 82:45 | 83:00 |
| HT 734 | 83:00 | 83:15 |
| HT 734 | 83:15 | 83:30 |
| HT 734 | 83:30 | 83:45 |
| HT 734 | 83:45 | 84:00 |
| HT 734 | 84:00 | 84:15 |
| HT 734 | 84:15 | 84:30 |
| HT 734 | 84:30 | 84:45 |
| HT 734 | 84:45 | 85:00 |
| HT 734 | 85:00 | 85:15 |
| HT 734 | 85:15 | 85:30 |
| HT 734 | 85:30 | 85:45 |
| HT 734 | 85:45 | 86:00 |
| HT 734 | 86:00 | 86:15 |
| HT 734 | 86:15 | 86:30 |
| HT 734 | 86:30 | 86:45 |
| HT 734 | 86:45 | 87:00 |
| HT 734 | 87:00 | 87:15 |
| HT 734 | 87:15 | 87:30 |
| HT 734 | 87:30 | 87:45 |
| HT 734 | 87:45 | 88:00 |
| HT 734 | 88:00 | 88:15 |
| HT 734 | 88:15 | 88:30 |
| HT 734 | 88:30 | 88:45 |
| HT 734 | 88:45 | 89:00 |
| HT 734 | 89:00 | 89:15 |
| HT 734 | 89:15 | 89:30 |
| HT 734 | 89:30 | 89:45 |
| HT 734 | 89:45 | 90:00 |
| HT 734 | 90:00 | 90:15 |
| HT 734 | 90:15 | 90:30 |
| HT 734 | 90:30 | 90:45 |
| HT 734 | 90:45 | 91:00 |
| HT 734 | 91:00 | 91:15 |
| HT 734 | 91:15 | 91:30 |
| HT 734 | 91:30 | 91:45 |
| HT 734 | 91:45 | 92:00 |
| HT 734 | 92:00 | 92:15 |
| HT 734 | 92:15 | 92:30 |
| HT 734 | 92:30 | 92:45 |
| HT 734 | 92:45 | 93:00 |
| HT 734 | 93:00 | 93:15 |
| HT 734 | 93:15 | 93:30 |
| HT 734 | 93:30 | 93:45 |
| HT 734 | 93:45 | 94:00 |
| HT 734 | 94:00 | 94:15 |
| HT 734 | 94:15 | 94:30 |
| HT 734 | 94:30 | 94:45 |
| HT 734 | 94:45 | 95:00 |
| HT 734 | 95:00 | 95:15 |
| HT 734 | 95:15 | 95:30 |
| HT 734 | 95:30 | 95:45 |
| HT 734 | 95:45 | 96:00 |
| HT 734 | 96:00 | 96:15 |
| HT 734 | 96:15 | 96:30 |
| HT 734 | 96:30 | 96:45 |
| HT 734 | 96:45 | 97:00 |
| HT | | |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.8 Single Arrival and Departure Monitoring

| 當天失班率: 2A    10:01 | | | | | | |
|---|--|-----------|----|--|-------------------|-----------|
| 0500-1000 | 2/47(4.26%) | 1000-1500 | -- | 1500-2000 | -- | 2000-0200 |
| 車牌字軌 | 美孚->樂華   | | | 樂華->美孚   | | |
| GW3582 2A/ 14 | 08:43 | 08:56 | 6 | 09:51 | 11:00 | |
| | | 63625 | | | 63625(膳) | |
| JD9717 2A/ 02 | 08:55 | 09:08 | 12 | 10:03 | 11:12 | |
| | | 63663 | | | 63663(膳) | |
| MS5729 2A/ 04 | 09:07 | 09:20 | 12 | 10:15 | 10:24 | |
| | | 71169 | | | 71169 | |
| GW2410 2A/ 13 | 08:19 | 09:32 | 12 | 10:27 | 10:36 | |
| | | 61941(膳) | | | 61941 | |
| MP6513 2A/ 01 | 08:31 | 09:44 | 12 | 10:39 | 10:48 | |
| | | 68022(膳) | | | 68022 | |
| PC3760 2A/ 11 | 09:43 | 09:56 | 12 | 10:51 | 10:51 樂華=>牛頭角 | |
| | | 76199 | | | 76199 | (私) |
| JD9093 2A/ 07 | 10:00 | 10:08 | 12 | 08:44 | 09:00 | |
| | | 23864 | | | 23864 | |
| PC4344 2A/S02 | 10:20 | 10:20 | 12 | - | 10:16 荔枝角廠=>美孚 | |
| | | (欠人) | | | (欠人) | (廠) |
| LF3614 2A/ 03 | 09:19 | 10:32 | 12 | 11:32 | 11:36 | |
| | | 74658(膳) | | | 74658 | |
| KR4350 2A/ 06 | 09:25 | 10:44 | 12 | 11:44 | 11:48 | |
| | | 69966(膳) | | | 69966 | |
| NE 714 2A/ 05 | 09:31 | 10:56 | 12 | 11:56 | 12:00 | |
| | | 78696(膳) | | | 78696 | |
| GW2556 2A/ 16 | 11:00 | 11:08 | 12 | 09:45 | 10:00 | |
| | | 18635 | | | 18635 | |
| JA9579 2A/S01 | 11:12 | 11:20 | 12 | 10:12 | 10:12 | |
| | | 73252 | | | 73252 | |
| PC3112 2A/ 15 | 10:12 | 11:30 | 10 | 09:03 | 09:12 | |
| | | 68802(膳) | | | 68802 | |
| RE 508 2A/ 08 | 10:24 | 11:40 | 10 | 09:15 | 09:24 | |
| | | 28476(膳) | | | 28476 | |
| PC3522 2A/ 12 | 10:36 | 11:55 | 15 | 09:27 | 09:36 | |
| | | 69800(膳) | | | 69800 | |
| MZ2851 2A/ 09 | 10:48 | 12:00 | 5 | 09:39 | 09:48 | |
| | | 63665(膳) | | | 63665 | |

Departure Management

ROM System Proposal
System Functions Section
☒ 顯示已收字軌 ☒ 顯示私/廠 ☒ 只計算總站開 Headway

| 當天失班率: | | 2A | | 10:01 | |
|------------------|-------------|-----------|--------|-----------|-----------|
| 0500-1000 | 2/47(4.26%) | 1000-1500 | -- | 1500-2000 | -- |
| 2000-0200 | -- | | | | |
| 車牌字軌 | 美孚->樂華 | | 樂華->美孚 | | |
| GW3582 2A/ 14 | 08:43 | 08:56 | 6 | 09:51 | 11:00 |
| | | 63625 | | | 63625(膳) |
| JD9717 2A/ 02 | 08:55 | 09:08 | 12 | 10:03 | 11:12 |
| | | 63663 | | | 63663(膳) |
| MS5729 2A/ 04 | 09:07 | 09:20 | 12 | 10:15 | 10:24 |
| | | 71169 | | | 71169 |
| GW2410 2A/ 13 | 08:19 | 09:32 | | 10:27 | 10:36 |
| | | 61941(膳) | | | 61941 |
| MP6513 2A/ 01 | 08:31 | 09:44 | | 10:39 | 10:48 |
| | | 68022(膳) | | | 68022 |
| PC3760 2A/ 11 | 09:43 | 09:56 | | 10:51 | 10:51 |
| | | 76199 | | | 樂華=>牛頭角 |
| | | | | | 76199 (私) |
| JD9093 2A/ 07 | 10:00 | 10:08 | | 08:44 | 09:00 |
| | | 23864 | | | 23864 |
| PC4344 2A/S02 | 10:20 | 10:20 | | - | 10:16 |
| | | (欠人) | | | 荔枝角廠=>美孚 |
| | | | | | (欠人) (廠) |

顯示可聯絡車長之電話號碼

Switch to map view

Switch to line chart

Switch to Working Timetable

| | | |
|---------------------|------------------------------------|-------------|
| 上一班次之編定/預計/實際到達時間 | 編定/實際開出時間 顯示起點=>終點(如與標題顯示之終點不同) | 與前車開出時間之差距 |
| 車輛行走路線(如與標題顯示之路線不同) | 車長編號,用膳狀況(膳,茶) | 顯示班次性質(私,廠) |

背景說明:

| |
|-------------|
| 上一班次已到達 |
| 上一班次已開出但未到達 |
| 上一班次未開出 |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.9 Maintain Working Timetable

7.2.2.9.1 Working Timetable – Time View

日期: 20-08-2014

時間: 99:99 - 99:99

路線: 58M 往良景
58M 往葵芳
58P 往良景
58P 往葵芳
59M 往屯碼
59M 往荃灣

車牌: HR7614
NA8693
KL1584
HP4367
HK5581
PB1632

車長: 77425
6628
65138
72161
1834

調整班次 (F12) 發訊放息 (F10)

排序: 車輛 / 車長 / 時間

| 路線 | 載來車牌 | 載走車牌 | 車輛編號 | 備定開走 | 備定到達 | 已抵達中途站 | 到達時間 | ETA | 起點 | 終點 | 載來車長 | 載走車長 | 車長編號 | 累積失班率 | 工作時間 | 備 | 備 | 意外 |
|-----|--------|--------|-------------|-------|-------|--------|-------|-----|-------|-------|-------|-------|-----------|-------|------|---|---|----|
| 58M | JS7632 | JS7632 | 58M/06 | 9:00 | 9:54 | 良景邨 | 9:54 | | 葵芳鐵路站 | 良景邨 | 62969 | 62969 | 58M/06/早 | (隨) | | | | |
| 58M | KC7617 | KC7617 | 58M/S11 (私) | 9:04 | 9:33 | 良景邨 | 9:33 | | 葵芳鐵路站 | 良景邨 | 66361 | 66361 | 58M/S11/早 | (隨) | | | | |
| 58M | JV6850 | JV6850 | 58M/95 | 9:05 | 10:05 | 葵芳鐵路站 | 10:05 | | 葵芳鐵路站 | 葵芳鐵路站 | 15678 | 15678 | 58M/95/早 | (隨) | | | | |
| 58M | JV6725 | JV6725 | 58M/08 (私) | 9:09 | 9:38 | 良景邨 | 9:38 | | 葵芳鐵路站 | 良景邨 | 65489 | 65489 | 58M/08/早 | (隨) | | | | |
| 58M | - | JT1030 | 58M/15 | 9:10 | 10:04 | 良景邨 | 10:16 | | 葵芳鐵路站 | 良景邨 | - | 64381 | 58M/15/早 | (隨) | | | | |
| 58M | HS 781 | HS 781 | 58M/S01 | 9:10 | 10:10 | | | | 良景邨 | 葵芳鐵路站 | 53211 | 53211 | 58M/S01/早 | (隨) | | | | |
| 58M | JT1189 | JT1189 | 58M/S15 (私) | 9:10 | 9:45 | | | | 葵芳鐵路站 | 建生邨 | 60920 | 60920 | 58M/S15/早 | (隨) | | | | |
| 58M | JV6814 | JV6814 | 58M/12 | 9:15 | 10:15 | | | | 良景邨 | 葵芳鐵路站 | 62918 | 62918 | 58M/12/早 | (隨) | | | | |
| 58M | JT2256 | JT2256 | 58M/S16 (廠) | 9:20 | 10:10 | | | | 葵芳鐵路站 | 屯門南廠 | 65657 | 65657 | 58M/S16/早 | (隨) | | | | |
| 58M | 欠車 | 欠車 | 58M/07 (廠) | 9:20 | 10:10 | | | | 葵芳鐵路站 | 屯門南廠 | 72460 | 72460 | 58M/07/早 | (隨) | | | | |
| 58M | KC3555 | KC3555 | 58M/S14 | 9:20 | 10:14 | | | | 葵芳鐵路站 | 良景邨 | 87684 | 87684 | 58M/S14/早 | (隨) | | | | |
| 58M | HJ7491 | HJ7491 | 58M/S03 | 9:20 | 10:20 | | | | 良景邨 | 葵芳鐵路站 | 1180 | 1180 | 58M/S03/早 | (隨) | | | | |
| 58M | JS7054 | JS7054 | 58M/04 (廠) | 9:21 | 10:11 | | | | 葵芳鐵路站 | 屯門南廠 | 1548 | 1548 | 58M/04/早 | (隨) | | | | |
| 58M | JV6501 | JV6501 | 58M/S12 | 9:26 | 10:26 | | | | 良景邨 | 葵芳鐵路站 | 78343 | 78343 | 58M/S12/早 | (隨) | | | | |
| 58M | KU7538 | KU7538 | 58M/14 (廠) | 9:27 | 10:17 | | | | 葵芳鐵路站 | 屯門南廠 | 欠人 | 欠人 | 58M/14/早 | (隨) | | | | |
| 58M | KS 709 | KS 709 | 58M/96 | 9:30 | 10:24 | | | | 葵芳鐵路站 | 良景邨 | 21855 | 21855 | 58M/96/早 | (隨) | | | | |
| 58M | HN8597 | HN8597 | 58M/S06 | 9:32 | 10:32 | | | | 良景邨 | 葵芳鐵路站 | 62539 | 62539 | 58M/S06/早 | (隨) | | | | |
| 58M | KC3551 | KC3551 | 58M/09 (廠) | 9:37 | 10:27 | | | | 葵芳鐵路站 | 屯門南廠 | 60009 | 60009 | 58M/09/早 | (隨) | | | | |
| 58M | KC7617 | KC7617 | 58M/S11 | 9:38 | 10:38 | | | | 良景邨 | 葵芳鐵路站 | 66361 | 66361 | 58M/S11/早 | (茶) | | | | |
| 58M | KU8269 | KU8269 | 58M/13 | 9:40 | 10:34 | | | | 葵芳鐵路站 | 良景邨 | 60937 | 60937 | 58M/13/早 | (隨) | | | | |
| 58M | JV7178 | JV7178 | 58M/S08 | 9:44 | 10:44 | | | | 良景邨 | 葵芳鐵路站 | 66265 | 66265 | 58M/S08/早 | (隨) | | | | |
| 58M | JV7191 | JV7191 | 58M/11 (廠) | 9:46 | 10:36 | | | | 葵芳鐵路站 | 屯門南廠 | 71306 | 71306 | 58M/11/早 | (隨) | | | | |
| 58M | KJ2052 | KJ2052 | 58M/10 | 9:50 | 10:44 | | | | 葵芳鐵路站 | 良景邨 | 60804 | 60804 | 58M/10/早 | (隨) | | | | |
| 58M | JV6725 | JV6725 | 58M/08 | 9:50 | 10:50 | | | | 良景邨 | 葵芳鐵路站 | 65489 | 65489 | 58M/08/早 | (隨) | | | | |
| 58M | JX6040 | JX6040 | 58M/S09 | 9:56 | 10:56 | | | | 良景邨 | 葵芳鐵路站 | 78573 | 78573 | 58M/S09/早 | (隨) | | | | |
| 58M | KP7401 | KP7401 | 58M/16 (廠) | 9:58 | 10:48 | | | | 葵芳鐵路站 | 屯門南廠 | 71496 | 71496 | 58M/16/早 | (隨) | | | | |
| 58M | HS1275 | HS1275 | 58M/S04 | 10:00 | 10:54 | | | | 葵芳鐵路站 | 良景邨 | 69551 | 69551 | 58M/S04/早 | (隨) | | | | |
| 58M | KK3140 | KK3140 | 58M/S07 | 10:04 | 11:04 | | | | 良景邨 | 葵芳鐵路站 | 65338 | 65338 | 58M/S07/早 | (隨) | | | | |
| 58M | JV6850 | JV6850 | 58M/95 (私) | 10:08 | 10:37 | | | | 葵芳鐵路站 | 良景邨 | 15678 | 15678 | 58M/95/早 | (隨) | | | | |
| 58M | HN7582 | HN7582 | 58M/S02 | 10:10 | 11:04 | | | | 葵芳鐵路站 | 良景邨 | 53460 | 53460 | 58M/S02/早 | (隨) | | | | |
| 58M | JT1030 | JT1030 | 58M/15 | 10:13 | 11:13 | | | | 良景邨 | 葵芳鐵路站 | 64381 | 64381 | 58M/15/早 | (隨) | | | | |
| 58M | KC3555 | KC3555 | 58M/S14 (廠) | 10:14 | 10:34 | | | | 良景邨 | 屯門南廠 | 87684 | 87684 | 58M/S14/早 | (隨) | | | | |

→ 路線出車率:

→ 車輛資料:

↓ 車長資料:

車長: 64381 XXX (月薪)
崗位: 58M/15/早
用膳時間: 99:99 – 99:99

↓ 事故資料:

行車過時:
崗位: 58M/15
編定開出時間: 10:13
實際到達時間: 10:16

遲到原因:

→ 詳細路線:

→ 統計資料:

抽調
發放信息
調整班次
停止發放車長訊息

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.9.2 Working Timetable – Bus View

車輛: KJ2052

路線:

字軌:

排序: 車輛 / 車長 / 時間

↓ 相關車長崗位

60804 李子光 屯門/月薪:

崗位: 58M/10/ 早

工時: 06:49 - 14:24

工時累積: 3.25 / 連續: 3.25

用膳: 10:10

71306 陳明 屯門/日薪:

崗位: 58M/S13/ 早

工時: 07:52 - 21:06

工時累積: 2.55 / 連續: 2.55

用膳: --

| | | | | | | | | | | | | |
|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|-------------------------------------|------------------------------------|
| 58M/ 01 JU2409 | 58M/ 02 JU3065 | 58M/ 03 KV6817 | 58M/ 04 JS7054 | 58M/ 05 JV6680 | 58M/ 06 JS7632 | 58M/ 07 欠車 | 58M/ 08 JV6725 | 58M/ 09 KC3551 | 58M/ 10 KJ2052 | 58M/ 11 JV7191 | 58M/ 12 JV6814 | 58M/ 13 KU8269 |
| 05:16 66187 廠總修中心天 台⇒良景邨 | 05:32 60757 廠)屯門南廠⇒ 良景邨 | 05:41 60583 廠)屯門南廠⇒ 良景邨 | 05:57 1548 廠)屯門南廠⇒ 良景邨 | 05:50 71733 廠)屯門南廠⇒ 良景邨 | 06:04 62969 廠)屯門南廠⇒ 良景邨 | 06:37 72460 廠)屯門南廠⇒ 建生邨 | 06:18 65489 廠)屯門南廠⇒ 良景邨 | 06:25 60009 廠)屯門南廠⇒ 良景邨 | 06:49 60804 廠總修中心天 台⇒良景邨 | 06:32 71306 廠)屯門南廠⇒ 良景邨 | 07:07 62918 廠總修中心天 台⇒建生邨 | 06:47 60937 廠)屯門南廠⇒ 建生邨 |
| 05:25 66187 良景邨⇒葵芳 鐵路站 | 05:42 60757 良景邨⇒葵芳 鐵路站 | 05:51 60583 良景邨⇒葵芳 鐵路站 | 06:07 1548 良景邨⇒葵芳 鐵路站 | 06:00 71733 良景邨⇒葵芳 鐵路站 | 06:14 62969 良景邨⇒葵芳 鐵路站 | 06:50 72460 建生邨⇒葵芳 鐵路站 | 06:28 65489 良景邨⇒葵芳 鐵路站 | 06:35 60009 良景邨⇒葵芳 鐵路站 | 06:58 60804 良景邨⇒葵芳 鐵路站 | 06:42 71306 良景邨⇒葵芳 鐵路站 | 07:15 62918 建生邨⇒葵芳 鐵路站 | 07:00 60937 建生邨⇒葵芳 鐵路站 |
| 06:20 66187 葵芳鐵路站⇒ 良景邨 | 06:44 60757 葵芳鐵路站⇒ 良景邨 | 06:56 60583 葵芳鐵路站⇒ 良景邨 | 07:08 1548 葵芳鐵路站⇒ 良景邨 | 06:54 71733 私)葵芳鐵路站 ⇒良景邨 | 07:08 62969 私)葵芳鐵路站 ⇒良景邨 | 07:42 72460 私)葵芳鐵路站 ⇒寶田 | 07:22 65489 私)葵芳鐵路站 ⇒良景邨 | 07:32 60009 葵芳鐵路站⇒ 良景邨 | 07:58 60804 私)葵芳鐵路站 ⇒良景邨 | 07:44 71306 葵芳鐵路站⇒ 良景邨 | 08:10 62918 葵芳鐵路站⇒ 良景邨 | 07:52 60937 私)葵芳鐵路站 ⇒良景邨 |
| 07:16 66187 良景邨⇒葵芳 鐵路站 | 07:40 60757 良景邨⇒葵芳 鐵路站 | 07:49 60583 良景邨⇒葵芳 鐵路站 | 08:11 1548 良景邨⇒葵芳 鐵路站 | 07:31 71733 良景邨⇒葵芳 鐵路站 | 07:44 62969 良景邨⇒葵芳 鐵路站 | 08:20 72460 寶田⇒葵芳鐵 路站 | 07:59 65489 良景邨⇒葵芳 鐵路站 | 08:29 60009 良景邨⇒葵芳 鐵路站 | 08:35 60804 良景邨⇒葵芳 鐵路站 | 08:41 71306 良景邨⇒葵芳 鐵路站 | 09:15 62918 良景邨⇒葵芳 鐵路站 | 08:23 60937 良景邨⇒葵芳 鐵路站 |
| 08:21 66187 廠葵芳鐵路站 ⇒屯門南廠 | 08:50 60757 私)葵芳鐵路站 ⇒良景邨 | 08:59 60583 私)葵芳鐵路站 ⇒良景邨 | 09:21 1548 廠)葵芳鐵路站 ⇒屯門南廠 | 08:41 71733 廠)葵芳鐵路站 ⇒屯門南廠 | 09:00 62969 葵芳鐵路站⇒ 良景邨 | 09:20 72460 廠)葵芳鐵路站 ⇒屯門南廠 | 09:09 65489 私)葵芳鐵路站 ⇒良景邨 | 09:37 60009 廠)葵芳鐵路站 ⇒屯門南廠 | 09:50 60804 葵芳鐵路站⇒ 良景邨 | 09:46 71306 廠)葵芳鐵路站 ⇒屯門南廠 | 10:20 62918 葵芳鐵路站⇒ 良景邨 | 09:40 60937 葵芳鐵路站⇒ 良景邨 |
| 10:37 66187(膳) 廠)屯門南廠⇒ 良景邨 | 10:21 60757(膳) 良景邨⇒葵芳 鐵路站 | 10:38 60583(膳) 良景邨⇒葵芳 鐵路站 | 11:45 1548(膳) 廠)屯門南廠⇒ 良景邨 | 11:02 71733(膳) 廠)屯門南廠⇒ 良景邨 | 11:04 62969(膳) 良景邨⇒葵芳 鐵路站 | 12:19 71306(膳) 廠)屯門南廠⇒ 良景邨 | 12:19 65489 良景邨⇒葵芳 鐵路站 | 12:10 60009(膳) 廠)屯門南廠⇒ 良景邨 | 12:10 78464 良景邨⇒葵芳 鐵路站 | 12:02 欠人(膳) 廠)屯門南廠⇒ 良景邨 | 11:14 62918 廠)良景邨⇒屯 門南廠 | 11:38 60937(膳) 良景邨⇒葵芳 鐵路站 |
| 10:47 66187 良景邨⇒葵芳 鐵路站 | 11:30 60757 葵芳鐵路站⇒ 良景邨 | 11:50 60583 葵芳鐵路站⇒ 良景邨 | 11:55 1548 良景邨⇒葵芳 鐵路站 | 11:12 71733 良景邨⇒葵芳 鐵路站 | 12:20 62969 葵芳鐵路站⇒ 良景邨 | 12:29 71306 良景邨⇒葵芳 鐵路站 | 10:50 65489 廠)葵芳鐵路站 ⇒屯門南廠 | 12:20 60009 良景邨⇒葵芳 鐵路站 | 12:10 78464 葵芳鐵路站⇒ 良景邨 | 12:12 欠人 良景邨⇒葵芳 鐵路站 | 13:27 62918(膳) 廠)屯門南廠⇒ 良景邨 | 12:50 60937 葵芳鐵路站⇒ 良景邨 |
| 良景邨⇒葵芳 鐵路站 | 葵芳鐵路站⇒ 良景邨 | 葵芳鐵路站⇒ 良景邨 | 良景邨⇒葵芳 鐵路站 | 良景邨⇒葵芳 鐵路站 | 葵芳鐵路站⇒ 良景邨 | 良景邨⇒葵芳 鐵路站 | 廠)葵芳鐵路站 ⇒屯門南廠 | 良景邨⇒葵芳 鐵路站 | 葵芳鐵路站⇒ 良景邨 | 良景邨⇒葵芳 鐵路站 | 廠)屯門南廠⇒ 良景邨 | 葵芳鐵路站⇒ 良景邨 |

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長 編號 | 車輛 編號 | 開出 時間 | 預計 到達 | 實際 到達 | 參考 編號 | 行車 概況 | 行車 時間表 | 折線 圖 | 地圖 | 受影 路線 | 響班 字軌 | 次(車) 開出 | 受影 路線 | 響班 字軌 | 次(人) 開出 |
|-----|-----------|------|----|----------|----------|----------|----------|----------|----------|----------|-----------|---------|----|----------|----------|------------|----------|----------|------------|
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Page 61 of 106

46

Departure Management

ROM System Proposal
System Functions Section

7.2.2.9.3 Working Timetable – BC View

車長: 60804

路線:

字軌:

更份:

排序: 車輛 / **車長** / 時間

| 58M/01/早 66187 | 58M/02/早 60757 | 58M/03/早 60583 | 58M/04/早 1548 | 58M/05/早 71733 | 58M/06/早 62969 | 58M/07/早 72460 | 58M/08/早 65489 | 58M/09/早 60009 | 58M/10/早 60804 | 58M/11/早 71306 | 58M/12/早 62918 | 58M/13/早 60937 | 58M/14/早 欠人 |
|------------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|----------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|----------------------------------|-----------------------------------|
| 05:16 JU2409 廠總修中心天 台→良景邨 | 05:32 JU3065 廠屯門南廠→ 良景邨 | 05:41 KV6817 廠屯門南廠→ 良景邨 | 05:57 JS7054 廠屯門南廠→ 良景邨 | 05:50 JV6680 廠屯門南廠→ 良景邨 | 06:04 JS7632 廠屯門南廠→ 良景邨 | 06:37 欠車 建生邨→ 良景邨 | 06:18 JV6725 廠屯門南廠→ 良景邨 | 06:25 KC3551 廠屯門南廠→ 良景邨 | 06:49 KU2052 廠總修中心天 台→良景邨 | 06:32 JV7191 廠屯門南廠→ 良景邨 | 07:07 JV6814 廠總修中心天 台→建生邨 | 06:47 KU8269 廠屯門南廠→ 建生邨 | 06:11 KU7538 廠屯門南廠→ 良景邨 |
| 05:25 JU2409 良景邨→葵芳鐵 路站 | 05:42 JU3065 良景邨→葵芳鐵 路站 | 05:51 KV6817 良景邨→葵芳鐵 路站 | 06:07 JS7054 良景邨→葵芳鐵 路站 | 06:00 JV6680 良景邨→葵芳鐵 路站 | 06:14 JS7632 良景邨→葵芳鐵 路站 | 06:50 欠車 建生邨→葵芳鐵 路站 | 06:28 JV6725 良景邨→葵芳鐵 路站 | 06:35 KC3551 良景邨→葵芳鐵 路站 | 06:58 KU2052 良景邨→葵芳鐵 路站 | 06:42 JV7191 良景邨→葵芳鐵 路站 | 07:15 JV6814 建生邨→葵芳鐵 路站 | 07:00 KU8269 建生邨→葵芳鐵 路站 | 06:21 KU7538 良景邨→葵芳鐵 路站 |
| 06:20 JU2409 葵芳鐵路站→良 景邨 | 06:44 JU3065 葵芳鐵路站→良 景邨 | 06:56 KV6817 葵芳鐵路站→良 景邨 | 07:08 JS7054 葵芳鐵路站→良 景邨 | 06:54 JV6680 葵芳鐵路站→良 景邨 | 07:08 JS7632 葵芳鐵路站→良 景邨 | 07:42 欠車 寶田→良景邨 | 07:22 JV6725 葵芳鐵路站→良 景邨 | 07:32 KC3551 葵芳鐵路站→良 景邨 | 07:58 KU2052 葵芳鐵路站→良 景邨 | 07:44 JV7191 葵芳鐵路站→良 景邨 | 08:10 JV6814 葵芳鐵路站→良 景邨 | 07:52 KU8269 葵芳鐵路站→良 景邨 | 07:20 KU7538 葵芳鐵路站→良 景邨 |
| 07:16 JU2409 良景邨→葵芳鐵 路站 | 07:40 JU3065 良景邨→葵芳鐵 路站 | 07:49 KV6817 良景邨→葵芳鐵 路站 | 08:11 JS7054 良景邨→葵芳鐵 路站 | 07:31 JV6680 良景邨→葵芳鐵 路站 | 07:44 JS7632 良景邨→葵芳鐵 路站 | 08:20 欠車 寶田→葵芳鐵路 站 | 07:59 JV6725 良景邨→葵芳鐵 路站 | 08:29 KC3551 良景邨→葵芳鐵 路站 | 08:35 KU2052 良景邨→葵芳鐵 路站 | 08:41 JV7191 良景邨→葵芳鐵 路站 | 09:15 JV6814 良景邨→葵芳鐵 路站 | 08:23 KU8269 良景邨→葵芳鐵 路站 | 08:17 KU7538 良景邨→葵芳鐵 路站 |
| 08:21 JU2409 葵芳鐵路站→屯 門南廠 | 08:50 JU3065 葵芳鐵路站→良 景邨 | 08:59 KV6817 葵芳鐵路站→良 景邨 | 09:21 JS7054 葵芳鐵路站→屯 門南廠 | 08:41 JV6680 葵芳鐵路站→屯 門南廠 | 09:00 JS7632 葵芳鐵路站→良 景邨 | 09:20 欠車 葵芳鐵路站→屯 門南廠 | 09:09 JV6725 葵芳鐵路站→良 景邨 | 09:37 KC3551 葵芳鐵路站→屯 門南廠 | 09:50 KU2052 葵芳鐵路站→良 景邨 | 09:46 JV7191 葵芳鐵路站→屯 門南廠 | 10:20 JV6814 葵芳鐵路站→良 景邨 | 09:40 KU8269 葵芳鐵路站→良 景邨 | 09:27 KU7538 葵芳鐵路站→屯 門南廠 |
| 09:11 (隔) 屯門南廠 | 09:19 (隔) 良景邨 | 09:28 (隔) 良景邨 | 10:11 (隔) 屯門南廠 | 09:31 (隔) 屯門南廠 | 09:54 (隔) 良景邨 | 09:31 (茶) 屯門南廠 | 10:27 (隔) 屯門南廠 | 10:44 (隔) 良景邨 | 10:36 (隔) 屯門南廠 | 11:14 (隔) 良景邨→屯 門南廠 | 10:34 (隔) 良景邨 | 11:38 (隔) 良景邨 | 10:17 (隔) 屯門南廠 |
| 10:37 JU2409 廠屯門南廠→ 良景邨 | 10:21 JU3065 良景邨→葵芳鐵 路站 | 10:38 KV6817 良景邨→葵芳鐵 路站 | 11:45 JS7054 廠屯門南廠→ 良景邨 | 11:02 JV6680 廠屯門南廠→ 良景邨 | 11:04 JS7632 良景邨→葵芳鐵 路站 | 11:11 KU7538 廠屯門南廠→ 良景邨 | 10:50 JV6725 廠葵芳鐵路站→ 屯門南廠 | 12:10 KC3551 廠屯門南廠→ 良景邨 | 12:03 KC7617 良景邨→葵芳鐵 路站 | 12:19 欠車 廠屯門南廠→ 良景邨 | 11:34 (隔) 屯門南廠 | 11:38 KU8269 良景邨→葵芳鐵 路站 | 12:02 JV7191 廠屯門南廠→ 良景邨 |
| 10:47 JU2409 良景邨→葵芳鐵 路站 | 11:30 JU3065 葵芳鐵路站→良 景邨 | 11:50 KV6817 葵芳鐵路站→良 景邨 | 11:55 JS7054 葵芳鐵路站→良 景邨 | 11:12 JV6680 葵芳鐵路站→良 景邨 | 12:20 JS7632 葵芳鐵路站→良 景邨 | 11:21 KU7538 葵芳鐵路站→良 景邨 | 11:40 (隔) 屯門南廠 | 12:30 KC3551 良景邨→葵芳鐵 路站 | 13:10 KC7617 葵芳鐵路站→良 景邨 | 12:29 欠車 良景邨→葵芳鐵 路站 | 13:27 JV6814 廠屯門南廠→ 良景邨 | 12:50 KU8269 葵芳鐵路站→良 景邨 | 12:12 JV7191 良景邨→葵芳鐵 路站 |
| 12:00 JU2409 良景邨→葵芳鐵 路站 | 12:37 JU3065 葵芳鐵路站→良 景邨 | 13:00 KV6817 葵芳鐵路站→良 景邨 | 13:00 JS7054 葵芳鐵路站→良 景邨 | 12:25 JV6680 葵芳鐵路站→良 景邨 | 12:30 JS7632 葵芳鐵路站→良 景邨 | 12:30 KU7538 葵芳鐵路站→良 景邨 | 12:53 KC3551 良景邨→葵芳鐵 路站 | 14:04 KC3551 良景邨→葵芳鐵 路站 | 14:04 KC3551 良景邨→葵芳鐵 路站 | 14:04 KC3551 良景邨→葵芳鐵 路站 | 14:04 KC3551 良景邨→葵芳鐵 路站 | 14:04 KC3551 良景邨→葵芳鐵 路站 | 14:04 KC3551 良景邨→葵芳鐵 路站 |

↓ 相關車長崗位

KJ2052 / 崗位: 58M/10
上段收工泊:
下段收工泊:
柯打:

KC7617 / 崗位: 58M/S13
上段收工泊:
下段收工泊:
柯打:

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長 編號 | 車輛 編號 | 開出 時間 | 預計 到達 | 實際 到達 | 參考 編號 | 行車 概況 | 行車 時間表 | 折線 圖 | 地圖 | 受影 路線 | 響班 字軌 | 次(車) 開出 | 受影 路線 | 響班 字軌 | 次(人) 開出 |
|-----|-----------|------|----|----------|----------|----------|----------|----------|----------|----------|-----------|---------|----|----------|----------|------------|----------|----------|------------|
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | C39A | 05 | 15:10 | C39A | 05 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.9.4

Working Timetable – Regulation Mode in Time View

日期:
20-08-2014

時間:
99:99 - 99:99

路線:
58M
58M
58P
58P
59M
59M

方向:
往良景
往葵芳
往良景
往葵芳
往屯碼
往荃灣

車牌:
HR7614
NA8693
KL1584
HP4367
HK5581
PB1632

車長:
77425
6628
65138
72161
1834

行車時間表 (F12)

發放訊息 (F10)

排序: 車輛 / 車長 / 時間

載來

載走

| 路線 | 車輛 | 車輛崗位 | 編定開車 | 編定到達 | 起點 | 中途起載站 | 終點 | 載來車長 | 載走車長 | 聯絡OCC | 車長崗位 | 車長崗位 | 班次 |
|-----|--------|-------------|-------|-------|-------|-------|-------|-------|----------|-------|-----------|------------|----|
| 58M | KV6817 | 58M/ 03 | 12:54 | 13:48 | 良景邨 | | 葵芳鐵路站 | 60583 | 53679 | | 58M/ 03/早 | 58M/L01/夜 | 8 |
| 58M | JS7054 | 58M/ 04 | 13:00 | 13:54 | 葵芳鐵路站 | | 良景邨 | 1548 | 1548 | | 58M/ 04/早 | 58M/ 04/早 | 10 |
| 58M | JV6725 | 58M/ 08 | 13:03 | 13:57 | 良景邨 | | 葵芳鐵路站 | 65489 | 65489 | | 58M/ 08/早 | 58M/ 08/早 | 9 |
| 58M | KC7617 | 58M/S11 | 13:10 | 14:04 | 葵芳鐵路站 | | 良景邨 | 60804 | 60804 | | 58M/ 10/早 | 58M/ 10/早 | 10 |
| 58M | KJ2052 | 58M/ 10 | 13:11 | 14:05 | 良景邨 | | 葵芳鐵路站 | 78464 | 1624 | | 58M/S13/早 | 58M/L02/夜 | 8 |
| 58M | JV6680 | 58M/ 05 (廠) | 13:19 | 13:39 | 良景邨 | | 屯門南廠 | 71733 | 71733 | | 58M/ 05/早 | 58M/ 05/早 | - |
| 58M | JV7191 | 58M/ 11 | 13:20 | 14:14 | 葵芳鐵路站 | | 良景邨 | 欠人 | 欠人 | | 58M/ 14/早 | 58M/ 14/早 | 10 |
| 58M | JT1030 | 58M/ 15 | 13:20 | 14:14 | 良景邨 | | 葵芳鐵路站 | 64381 | 64381 | | 58M/ 15/早 | 58M/ 15/早 | 9 |
| | | | 13:24 | 14:28 | 良景邨 | | | | 72460(騰) | | | 58M/ 07/早 | - |
| 58M | JV6814 | 58M/ 12 (廠) | 13:27 | 13:37 | 屯門南廠 | | 良景邨 | 62918 | 62918 | | 58M/ 12/早 | 58M/ 12/早 | - |
| 58M | JS7632 | 58M/ 06 | 13:28 | 14:22 | 良景邨 | | 葵芳鐵路站 | 62969 | 4801 | | 58M/ 06/早 | 58M/ 03/夜 | 8 |
| 58M | KC3551 | 58M/ 09 | 13:30 | 14:24 | 葵芳鐵路站 | | 良景邨 | 60009 | 60009 | | 58M/ 09/早 | 58M/ 09/早 | 10 |
| 58M | JV6814 | 58M/ 12 | 13:37 | 14:31 | 良景邨 | | 葵芳鐵路站 | 62918 | 62918 | | 58M/ 12/早 | 58M/ 12/早 | 9 |
| 58M | 欠車 | 58M/ 07 | 13:40 | 14:34 | 葵芳鐵路站 | | 良景邨 | 71306 | 71306 | | 58M/ 11/早 | 58M/ 11/早 | 10 |
| 58M | KU7538 | 58M/ 14 | 13:45 | 14:39 | 良景邨 | | 葵芳鐵路站 | 72460 | 70819 | | 58M/ 07/早 | 58M/ 02/夜 | 8 |
| 58M | JU3065 | 58M/ 02 | 13:45 | 14:39 | 葵芳鐵路站 | | 良景邨 | 60757 | 60757 | | 58M/ 02/早 | 58M/ 02/早 | 5 |
| 58M | KP7401 | 58M/ 16 | 13:50 | 14:44 | 葵芳鐵路站 | | 良景邨 | 71496 | 71496 | | 58M/ 16/早 | 58M/ 16/早 | 5 |
| 58M | JS7054 | 58M/ 04 (廠) | 13:54 | 14:14 | 良景邨 | | 屯門南廠 | 1548 | 1548 | | 58M/ 04/早 | 58M/ 04/早 | - |
| 58M | KS 709 | 58M/ 96 | 13:54 | 14:48 | 良景邨 | | 葵芳鐵路站 | 21855 | 1611 | | 58M/ 96/早 | 58M/ 04/夜 | 9 |
| 58M | KV6817 | 58M/ 03 | 14:00 | 14:54 | 葵芳鐵路站 | | 良景邨 | 53679 | 53679 | | 58M/L01/夜 | 58M/L01/夜 | 10 |
| 58M | KU8269 | 58M/ 13 | 14:02 | 14:56 | 良景邨 | | 葵芳鐵路站 | 60937 | 64088 | | 58M/ 13/早 | 58M/ 06/夜 | 8 |
| 58M | KC7617 | 58M/S11 (廠) | 14:04 | 14:24 | 良景邨 | | 屯門南廠 | 60804 | 60804 | | 58M/ 10/早 | 58M/ 10/早 | - |
| 58M | JV6725 | 58M/ 08 | 14:10 | 15:04 | 葵芳鐵路站 | | 良景邨 | 65489 | 65489 | | 58M/ 08/早 | 58M/ 08/早 | 10 |
| 58M | 欠車 | 960 / 13 | 14:19 | 15:13 | 良景邨 | | 葵芳鐵路站 | - | 67882 | - | | 960 / 13/早 | 17 |
| 58M | KJ2052 | 58M/ 10 | 14:20 | 15:14 | 葵芳鐵路站 | | 良景邨 | 1624 | 1624 | | 58M/L02/夜 | 58M/L02/夜 | 10 |
| 58M | JU3065 | 58M/ 02 | 14:20 | | 荔枝角車廠 | | | 60757 | 60757 | | 58M/ 02/早 | 58M/ 02/早 | - |
| 58M | JV7191 | 58M/ 11 | 14:28 | 15:22 | 良景邨 | | 葵芳鐵路站 | 欠人 | 72460 | | 58M/ 14/早 | 58M/ 07/早 | 9 |
| 58M | JT1030 | 58M/ 15 | 14:30 | 15:24 | 葵芳鐵路站 | | 良景邨 | 64381 | 64381 | | 58M/ 15/早 | 58M/ 15/早 | 10 |

☐ 不同方向班次分開顯示
☐ 只顯示班次

適用於 [] 至 [] 開出之班次
☐ 提前欠人/欠車班次之前一班車開車時間。
☐ 提前欠人/欠車班次之後班車的開車時間
☒ 所有班車的開車時間

執行

套用以往調整後的行車時間:

- 58M 平日收 7 車(10 月 23 日星期四)
- 58M 平日收 7 車(10 月 6 日星期一)

儲存

套用

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Departure Management

ROM System Proposal
System Functions Section

日期:
20-08-2014

時間:
99:99 - 99:99

路線: 方向:

58M 往良景

58M 往葵芳

58P 往良景

58P 往葵芳

59M 往屯碼頭

59M 往荃葵

車牌:

HR7614

NA8693

KL1584

HP4367

HK5581

PB1632

車長:

77425

6628

65138

72161

1834

行車時間表 (F12)

發放訊息 (F10)

排序: 車輛 / 車長 / 時間

☒ 不同方向班次分開顯示
☐ 只顯示班次

提前欠人/欠車班次之前一班車開車時間。

適用於 : 至 : 開出之班次

提前欠人/欠車班次之後

☐ 班車的開車時間

☒ 所有班車的開車時間

執行

套用以往調整後的行車時間:

- 58M 平日收 7 車(10 月 23 日星期四)
- 58M 平日收 7 車(10 月 6 日星期一)

儲存

套用

| 路線 | 車輛 | 車輛崗位 | 編定開車 | 編定到達 | 起點 | 中途起載站 | 終點 | 載來車長 | 載走車長 | 聯絡OCC | 車長崗位 | 車長崗位 | 班次 |
|-----|--------|----------|-------|-------|-----|-------|-------|-------|----------|-------|-----------|------------|----|
| 58M | KV6817 | 58M/ 03 | 12:54 | 13:48 | 良景邨 | | 葵芳鐵路站 | 60583 | 53679 | | 58M/ 03/早 | 58M/L01/夜 | 8 |
| 58M | JV6725 | 58M/ 08 | 13:03 | 13:57 | 良景邨 | | 葵芳鐵路站 | 65489 | 65489 | | 58M/ 08/早 | 58M/ 08/早 | 9 |
| 58M | KJ2052 | 58M/ 10 | 13:11 | 14:05 | 良景邨 | | 葵芳鐵路站 | 78464 | 1624 | | 58M/S13/早 | 58M/L02/夜 | 8 |
| 58M | JT1030 | 58M/ 15 | 13:20 | 14:14 | 良景邨 | | 葵芳鐵路站 | 64381 | 64381 | | 58M/ 15/早 | 58M/ 15/早 | 9 |
| | | | 13:24 | 14:28 | 良景邨 | | | | 72460(膳) | | | 58M/ 07/早 | - |
| 58M | JS7632 | 58M/ 06 | 13:28 | 14:22 | 良景邨 | | 葵芳鐵路站 | 62969 | 4801 | | 58M/ 06/早 | 58M/ 03/夜 | 8 |
| 58M | JV6814 | 58M/ 12 | 13:37 | 14:31 | 良景邨 | | 葵芳鐵路站 | 62918 | 62918 | | 58M/ 12/早 | 58M/ 12/早 | 9 |
| 58M | KU7538 | 58M/ 14 | 13:45 | 14:39 | 良景邨 | | 葵芳鐵路站 | 72460 | 70819 | | 58M/ 07/早 | 58M/ 02/夜 | 8 |
| 58M | KS 709 | 58M/ 96 | 13:54 | 14:48 | 良景邨 | | 葵芳鐵路站 | 21855 | 1611 | | 58M/ 96/早 | 58M/ 04/夜 | 9 |
| 58M | KU8269 | 58M/ 13 | 14:02 | 14:56 | 良景邨 | | 葵芳鐵路站 | 60937 | 64088 | | 58M/ 13/早 | 58M/ 06/夜 | 8 |
| 58M | 欠車 | 960 / 13 | 14:19 | 15:13 | 良景邨 | | 葵芳鐵路站 | - | 67882 | - | | 960 / 13/早 | 17 |
| 58M | JV7191 | 58M/ 11 | 14:28 | 15:22 | 良景邨 | | 葵芳鐵路站 | 欠人 | 72460 | | 58M/ 14/早 | 58M/ 07/早 | 9 |

| 路線 | 車輛 | 車輛崗位 | 編定開車 | 編定到達 | 起點 | 中途起載站 | 終點 | 載來車長 | 載走車長 | 聯絡OCC | 車長崗位 | 車長崗位 | 班次 |
|-----|--------|---------|-------|-------|-------|-------|-----|-------|-------|-------|-----------|-----------|----|
| 58M | JS7054 | 58M/ 04 | 13:00 | 13:54 | 葵芳鐵路站 | | 良景邨 | 1548 | 1548 | | 58M/ 04/早 | 58M/ 04/早 | 10 |
| 58M | KC7617 | 58M/S11 | 13:10 | 14:04 | 葵芳鐵路站 | | 良景邨 | 60804 | 60804 | | 58M/ 10/早 | 58M/ 10/早 | 10 |
| 58M | JV7191 | 58M/ 11 | 13:20 | 14:14 | 葵芳鐵路站 | | 良景邨 | 欠人 | 欠人 | | 58M/ 14/早 | 58M/ 14/早 | 10 |
| 58M | KC3551 | 58M/ 09 | 13:30 | 14:24 | 葵芳鐵路站 | | 良景邨 | 60009 | 60009 | | 58M/ 09/早 | 58M/ 09/早 | 10 |
| 58M | 欠車 | 58M/ 07 | 13:40 | 14:34 | 葵芳鐵路站 | | 良景邨 | 71306 | 71306 | | 58M/ 11/早 | 58M/ 11/早 | 10 |
| 58M | JU3065 | 58M/ 02 | 13:45 | 14:39 | 葵芳鐵路站 | | 良景邨 | 60757 | 60757 | | 58M/ 02/早 | 58M/ 02/早 | 5 |
| 58M | KP7401 | 58M/ 16 | 13:50 | 14:44 | 葵芳鐵路站 | | 良景邨 | 71496 | 71496 | | 58M/ 16/早 | 58M/ 16/早 | 5 |
| 58M | KV6817 | 58M/ 03 | 14:00 | 14:54 | 葵芳鐵路站 | | 良景邨 | 53679 | 53679 | | 58M/L01/夜 | 58M/L01/夜 | 10 |
| 58M | JV6725 | 58M/ 08 | 14:10 | 15:04 | 葵芳鐵路站 | | 良景邨 | 65489 | 65489 | | 58M/ 08/早 | 58M/ 08/早 | 10 |
| 58M | KJ2052 | 58M/ 10 | 14:20 | 15:14 | 葵芳鐵路站 | | 良景邨 | 1624 | 1624 | | 58M/L02/夜 | 58M/L02/夜 | 10 |
| 58M | JT1030 | 58M/ 15 | 14:30 | 15:24 | 葵芳鐵路站 | | 良景邨 | 64381 | 64381 | | 58M/ 15/早 | 58M/ 15/早 | 10 |
| 58M | JS7632 | 58M/ 06 | 14:40 | 15:34 | 葵芳鐵路站 | | 良景邨 | 4801 | 4801 | | 58M/ 03/夜 | 58M/ 03/夜 | 10 |

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.9.5 Working Timetable – Regulation Mode in Bus View

行車時間表 (F12) 發放訊息 (F10)

| 58M/07 欠車 | 58M/11 JV7191 | 58M/14 KU7538 | 960/13 欠車 |
|-------------------------------------|--------------------------------------|--|---|
| 06:37 72460 廠/屯門南廠=> 建生邨 | 06:32 71306 (廠)屯門南廠=> 良景邨 | 06:11 欠人 (廠)屯門南廠=> 良景邨 | (960) 06:54 67882 (廠)屯門南廠=> 建生邨 |
| 06:50 72460 建生邨=>葵芳 鐵路站 | 06:42 71306 良景邨=>葵芳 鐵路站 | 06:21 欠人 良景邨=>葵芳 鐵路站 | (960) 07:07 67882 建生邨=>灣仔 碼頭 |
| 07:42 72460 私/葵芳鐵路站 =>寶田 | 07:44 71306 葵芳鐵路站=> 良景邨 | 07:20 欠人 葵芳鐵路站=> 良景邨 | (960) 08:26 67882 灣仔碼頭=>建 生邨 |
| 08:20 72460 寶田=>葵芳鐵 路站 | 08:41 71306 良景邨=>葵芳 鐵路站 | 08:17 欠人 良景邨=>葵芳 鐵路站 | (960) 10:56 67882(膳) 建生邨=>灣仔 碼頭 |
| 09:20 72460 廠/葵芳鐵路站 =>屯門南廠 | 09:46 71306 (廠)葵芳鐵路站 =>屯門南廠 | 09:27 欠人 (廠)葵芳鐵路站 =>屯門南廠 | (960) 12:30 67882 灣仔碼頭=>建 生邨 |

排序: 車輛 / 車長 / 時間

不同方向班次分開顯示

只顯示班次

提前欠人/欠車班次之前一班車開車時間.

適用於 : 至 :

開出之班次

提前欠人/欠車班次之後

☐ 班車的開車時間

☒ 所有班車的開車時間

執行

套用以往調整後的行車時間:

- 58M 平日收 7 車(10 月 23 日星期四)
- 58M 平日收 7 車(10 月 6 日星期一)

儲存
套用

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

ROM System Proposal System Functions Section

Departure Management

7.2.2.9.6 Working Timetable – Regulation Mode in BCView

行車時間表 (F12) 發放訊息 (F10)

| 58M/07/早 72460 | 58M/11/早 71306 | 58M/14/早 欠人 | 960/13/早 67882 | 960/13/夜 45722 |
|--|--|--|---|---|
| 06:37 欠車 (廠)屯門南廠=> 建生邨 | 06:32 JV7191 (廠)屯門南廠=> 良景邨 | 06:11 KU7538 (廠)屯門南廠=> 良景邨 | (960) 06:54 欠車 (廠)屯門南廠=> 建生邨 | 17:27 欠車 (廠)屯門南廠=> 建生邨 |
| 06:50 欠車 建生邨=>葵芳鐵 路車站 | 06:42 JV7191 良景邨=>葵芳鐵 路車站 | 06:21 KU7538 良景邨=>葵芳鐵 路車站 | (960) 07:07 欠車 建生邨=>灣仔碼 頭 | 17:41 欠車 (私)建生邨=>鯪 魚涌英皇道 |
| 07:42 欠車 私)葵芳鐵路車站= >寶田 | 07:44 JV7191 葵芳鐵路車站=>良 景邨 | 07:20 KU7538 葵芳鐵路車站=>良 景邨 | (960) 08:26 欠車 灣仔碼頭=>建生 邨 | (960B) 18:45 欠車 鯪魚涌英皇道=> 洪水橋 |
| 08:20 欠車 寶田=>葵芳鐵路 車站 | 08:41 JV7191 良景邨=>葵芳鐵 路車站 | 08:17 KU7538 良景邨=>葵芳鐵 路車站 | (960) 10:56(膳) 欠車 建生邨=>灣仔碼 頭 | (960B) 20:20 欠車 (私)洪水橋=>建 生邨 |
| 09:20 欠車 廠)葵芳鐵路車站= >屯門南廠 | 09:46 JV7191 (廠)葵芳鐵路車站= >屯門南廠 | 09:27 KU7538 (廠)葵芳鐵路車站= >屯門南廠 | (960) 12:30 欠車 灣仔碼頭=>建生 邨 | (960) 21:47(膳) 欠車 建生邨=>灣仔碼 頭 |
| 09:31 (茶) 屯門南廠 | 10:36 (膳) 屯門南廠 | 10:17 (膳) 屯門南廠 | (960) 13:50 欠車 (私)建生邨=>良 景邨 | (960) 23:10 欠車 灣仔碼頭=>建生 邨 |

排序: 車輛 / 車長 / 時間

不同方向班次分開顯示

☐ 只顯示班次

提前欠人/欠車班次之前一
班車開車時間.

適用於 至
開出之班次

提前欠人/欠車班次之後
☐ 班車的開車時間
☒ 所有班車的開車時間

執行

套用以往調整後的行車
時間:

- 58M 平日收 7 車(10
月 23 日星期四)
- 58M 平日收 7 車(10
月 6 日星期一)

儲存

套用

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長 編號 | 車輛 編號 | 開出 時間 | 預計 到達 | 實際 到達 | 參考 編號 | 行車 概況 | 行車 時間表 | 折線 圖 | 地圖 | 受影 路線 | 響班 字軌 | 次(車) 開出 | 受影 路線 | 響班 字軌 | 次(人) 開出 |
|-----|-----------|------|----|----------|----------|----------|----------|----------|----------|----------|-----------|---------|----|----------|----------|------------|----------|----------|------------|
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.9.7

Working Timetable – Resources Hunting (抽調)

日期:
20-08-2014

時間:
99:99 - 99:99

路線: 58M 往良景
58M 往葵芳
58P 往良景
58P 往葵芳
59M 往屯碼
59M 往荃鏡

車牌:
HR7614
NA8693
KL1584
HP4367
HK5581
PB1632

車長:
77425
6628
65138
72161
1834

調整班次 (F12) 發放訊息 (F10)

排序: 車輛 / 車長 / 時間

| 路線 | 車輛 | 車輛崗位 | 編定開車 | 實際開車 | 提早 | 已抵達中途站 | 預計尚餘 | 站名 | 時間 | 車程(分鐘) | 起點 | 中途起點站 | 終點 | 載來車長 | 載走車長 | 聯站OCC | 載來車長崗位 | 載走車長崗位 |
|----|--------|-------------|-------|-------|------|--------|------|-------|----|--------|-------|-------|----|-------|-------|-------|-----------|-----------|
| 8M | J57632 | 58M/06 | 13:28 | 13:28 | 0:00 | 14:22 | | 良景邨 | | | 葵芳鐵路站 | | | 62969 | 4801 | | 58M/06/早 | 58M/03/夜 |
| 8M | KC3551 | 58M/09 | 13:30 | 13:30 | 0:00 | 14:24 | | 葵芳鐵路站 | | | 良景邨 | | | 60009 | 60009 | | 58M/09/早 | 58M/09/早 |
| 8M | JV6814 | 58M/12 | 13:37 | 13:37 | 0:00 | 14:31 | | 良景邨 | | | 葵芳鐵路站 | | | 62918 | 62918 | | 58M/12/早 | 58M/12/早 |
| 8M | 欠車 | 58M/07 | 13:40 | 13:40 | 0:00 | 14:34 | | 葵芳鐵路站 | | | 良景邨 | | | 71306 | 71306 | | 58M/11/早 | 58M/11/早 |
| 8M | KU7538 | 58M/14 | 13:45 | 13:45 | 0:00 | 14:39 | | 良景邨 | | | 葵芳鐵路站 | | | 72460 | 70819 | | 58M/07/早 | 58M/02/夜 |
| 8M | JU3065 | 58M/02 | 13:45 | 13:47 | 0:02 | 14:39 | | 葵芳鐵路站 | | | 良景邨 | | | 60757 | 60757 | | 58M/02/早 | 58M/02/早 |
| 8M | KP7401 | 58M/16 | 13:50 | 13:50 | 0:00 | 14:44 | | 葵芳鐵路站 | | | 良景邨 | | | 71496 | 71496 | | 58M/16/早 | 58M/16/早 |
| 8M | J57054 | 58M/04 (廠) | 13:54 | 13:54 | 0:00 | 14:14 | | 良景邨 | | | 屯門南廠 | | | 1548 | 1548 | | 58M/04/早 | 58M/04/早 |
| 8M | KS 709 | 58M/96 | 13:54 | 13:54 | 0:00 | 14:48 | | 良景邨 | | | 葵芳鐵路站 | | | 21855 | 1611 | | 58M/96/早 | 58M/04/夜 |
| 8M | KV6817 | 58M/03 (廠) | 14:00 | 14:00 | 0:00 | 14:54 | | 葵芳鐵路站 | | | 良景邨 | | | 53679 | 53679 | | 58M/L01/夜 | 58M/L01/夜 |
| 8M | KU8269 | 58M/13 (廠) | 14:02 | 14:02 | 0:00 | 14:56 | | 良景邨 | | | 葵芳鐵路站 | | | 60937 | 64088 | | 58M/13/早 | 58M/06/夜 |
| 8M | KC7617 | 58M/S11 (廠) | 14:04 | 14:04 | 0:00 | 14:24 | | 良景邨 | | | 屯門南廠 | | | 60804 | 60804 | | 58M/10/早 | 58M/10/早 |
| 8M | JV6725 | 58M/08 | 14:10 | 14:10 | 0:00 | 15:04 | | 葵芳鐵路站 | | | 良景邨 | | | 65489 | 65489 | | 58M/08/早 | 58M/08/早 |
| 8M | 欠車 | 960/13 | 14:19 | 14:19 | 0:00 | 15:13 | | 良景邨 | | | 葵芳鐵路站 | | | - | 67882 | | 960/13/早 | |
| 8M | KJ2052 | 58M/10 | 14:20 | 14:21 | 0:01 | 15:14 | | 葵芳鐵路站 | | | 良景邨 | | | 1624 | 1624 | | 58M/L02/夜 | 58M/L02/夜 |
| 8M | JU3065 | 58M/02 | 14:20 | | | | | 葵芳鐵路站 | | | 葵芳鐵路站 | | | 60757 | 60757 | | 58M/02/早 | 58M/02/早 |
| 8M | JV7191 | 58M/11 | 14:28 | 14:28 | 0:00 | 15:22 | | 良景邨 | | | 葵芳鐵路站 | | | 64381 | | | 58M/07/早 | |
| 8M | JT1030 | 58M/15 | 14:30 | 14:30 | 0:00 | 15:24 | | 葵芳鐵路站 | | | 良景邨 | | | 78464 | | | 58M/15/早 | |
| 8M | JT1196 | 58M/S13 (廠) | 14:34 | 14:34 | 0:00 | 14:44 | | 屯門南廠 | | | 良景邨 | | | 71306 | | | 58M/S14/早 | |
| 8M | 欠車 | 58M/07 (廠) | 14:34 | 14:34 | 0:00 | 14:54 | | 良景邨 | | | 屯門南廠 | | | 60009 | | | 58M/11/早 | |
| 8M | KC3551 | 58M/09 | 14:36 | 14:36 | 0:00 | 15:30 | | 良景邨 | | | 葵芳鐵路站 | | | 4801 | | | 58M/05/夜 | |
| 8M | J57632 | 58M/06 | 14:40 | 14:40 | 0:00 | 15:34 | | 葵芳鐵路站 | | | 良景邨 | | | 87684 | | | 58M/03/夜 | |
| 8M | JT1196 | 58M/S13 | 14:44 | 14:44 | 0:00 | 15:38 | | 良景邨 | | | 葵芳鐵路站 | | | 62918 | | | 58M/S14/早 | |
| 8M | JV6814 | 58M/12 | 14:50 | 14:50 | 0:00 | 15:44 | | 葵芳鐵路站 | | | 良景邨 | | | 60757 | | | 58M/12/早 | |
| 8M | 欠車 | 58M/02 | 14:52 | 14:52 | 0:00 | 15:46 | | 良景邨 | | | 葵芳鐵路站 | | | 53679 | 欠人 | | 58M/07/夜 | |
| 8M | KV6817 | 58M/03 (廠) | 14:54 | 14:54 | 0:00 | 15:14 | | 良景邨 | | | 屯門南廠 | | | 1180 | | | 58M/L01/夜 | |
| 8M | HJ7491 | 58M/S03 (廠) | 14:58 | 14:58 | 0:00 | 15:08 | | 良景邨 | | | 良景邨 | | | 71496 | 1905 | | 58M/S03/早 | |
| 8M | KP7401 | 58M/16 | 15:00 | 15:00 | 0:00 | 15:54 | | 良景邨 | | | 葵芳鐵路站 | | | 70819 | 70819 | | 58M/16/早 | 58M/08/夜 |
| 8M | KU7538 | 58M/14 | 15:00 | 15:00 | 0:00 | 15:54 | | 葵芳鐵路站 | | | 良景邨 | | | 1611 | 1611 | | 58M/02/夜 | 58M/02/夜 |
| 8M | KS 709 | 58M/96 | 15:07 | 15:07 | 0:00 | 16:01 | | 葵芳鐵路站 | | | 良景邨 | | | 69551 | 69551 | | 58M/04/夜 | 58M/04/夜 |
| 8M | HJ7491 | 58M/S03 | 15:08 | 15:08 | 0:00 | 16:02 | | 良景邨 | | | 葵芳鐵路站 | | | 1180 | 1180 | | 58M/S03/早 | 58M/S03/早 |
| 8M | KJ2052 | 58M/10 | 15:14 | 15:14 | 0:00 | 15:14 | | 良景邨 | | | 良景邨 | | | 1624 | 1624 | | 58M/L02/夜 | 58M/L02/夜 |
| 8M | HS1275 | 58M/S04 (廠) | 15:14 | 15:14 | 0:00 | 15:24 | | 屯門南廠 | | | 良景邨 | | | 64088 | 64088 | | 58M/S04/早 | 58M/S04/早 |
| 8M | KU8269 | 58M/13 | 15:14 | 15:14 | 0:00 | 16:08 | | 葵芳鐵路站 | | | 良景邨 | | | 65489 | 53437 | | 58M/06/夜 | 58M/06/夜 |
| 8M | JV6725 | 58M/08 | 15:16 | 15:16 | 0:00 | 16:10 | | 良景邨 | | | 葵芳鐵路站 | | | 64381 | 64381 | | 58M/08/早 | 58M/L04/夜 |
| 8M | JT1030 | 58M/15 (廠) | 15:24 | 15:24 | 0:00 | 15:44 | | 良景邨 | | | 屯門南廠 | | | 69551 | 69551 | | 58M/15/早 | 58M/15/早 |
| 8M | HS1275 | 58M/S04 | 15:24 | 15:24 | 0:00 | 16:18 | | 良景邨 | | | 葵芳鐵路站 | | | | | | 58M/S04/早 | 58M/S04/早 |

→ 路線出車率:

→ 車輛資料:

↓ 車長資料:

車長: 64381 XXX (月薪)
崗位: 58M/15/早
用膳時間: 99:99 – 99:99

↓ 事故資料:

行車過時:
崗位: 58M/15
編定開出時間: 10:13
實際到達時間: 10:16

遲到原因:

→ 詳細路線:

→ 統計資料:

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

ROM System Proposal System Functions Section

Departure Management

7.2.2.9.8 Resources Available for resources re-allocation

字軌: 原編車輛: 原編車長: 開車時間: 起點:

抽調時段: 往後 班 抽調範圍:

總站:

廠來行車時間: 私牌行車時間:

與下一班出車時間相距最少: 路線失車 載客比例 投訴比例

不能違反工作指引: ☐ A ☐ B ☐ C ☐ D ☐ E

☐ 跨廠 ☐ 跨控制中心 ☐ 顯示調走/接車 ☐ 中段泊廠 ☐ 中段泊站

| 地點 | 車牌 | 車廠 | 字軌 | 車長編號 及崗位 | 聯絡 電話 | 工作安排 | 實際/預計 到站時間 | 編定 開車 時間 | 調走 / 接車 | 抽調車長違反工作指引 | | | | | 原路線 失車率 | 載客 比例 | 投訴 比例 | 備註 |
|--------------|--------|-----|---------|--------------------|----------|----------|---------------|----------------|------------|------------|---|---|---|---|------------|----------|----------|-----------------|
| | | | | | | | | | | A | B | C | D | E | | | | |
| 大埔中心 | HK1234 | SWH | | — | | 士啤 | | | | | | | | | | | | 74X-10 收車 違反夜泊 |
| 大埔廠 | HK2345 | SWH | 74X-S10 | 1234 74X-S10-早 | | 74X 中段回廠 | | 17:54 | | | | | | | | | | 下段17:10 出廠 違反夜泊 |
| 大埔廠 | HK3456 | SWH | | 2345 | | 士啤 | | | | | | | | | | | | 73X-03 收車 違反夜泊 |
| 大埔中心 | HK4567 | SWH | 72X-03 | 2345 72X-L01-早 | 98765432 | 72X | 15:20 | 15:28 | 調 | | | | | | 3.70% | 0.95 | 1.3 | 違反夜泊 |
| 大埔中心 (途中) | HK5678 | SWH | 74X-06 | 3456 74X-S02-早 | | 74X | 預計15:28 | 15:38 | | | B | | | | | | | 違反夜泊 |
| 富亨 | HK6789 | SWH | 71B-03 | 67890 71B-03-早 | 26610142 | 71B | 15:21 | 15:29 | | | | | | | 1.00% | 1.4 | 1.85 | 違反夜泊 |
| 大埔火車站 | | SWH | | 61432 72X-06-夜 | 65432100 | 站頭候命 | | | | | | C | | | | | | 違反夜泊 |
| 富善 | HK7890 | SWH | 73X-S10 | 76543 73X-L01-夜 | 26610142 | 73X 中段泊站 | | 16:48 | 接 | | | | | | 3.30% | 1.13 | 0.82 | 中段泊站 違反夜泊 |

Double click to
select swapping
Bus and/or BC

Departure Management

Remarks:

- System already ruled out :
 - Routes or runs not available for redeploying out (e.g. low frequency routes, first/last departure trips)
 - Incompatible route training or bus type
- Assume BC required to tap card after meal break and at the start of 2nd piece duty
- 實際到站時間 = time BC tap card or Wi-Fi detection time (show Wi-Fi icon if the latter, Wi-Fi icon disappears upon BC tap card)
- Allow user to redeploy till end of day or for one or a few trips only
- 載客比例 = average no. of passengers per trip of route A in that hour / that of route B in the same hour (where redeployment is from route B to A)
- 投訴比例 = no. of complaints on route A in the past 30 days / that of route B (where redeployment is from route B to A)
- Need consider how to inform the re-arrangements to affected BCs
- Guidelines on Bus Captain (refer appendix A.4 for details):
 - Guideline A: Bus Captains should have a rest time of at least 30 minutes after 6 hours of duty and within that 6-hour duty, they should have rest times of 20 minutes of which not less than 12 minutes should be within the first 4 hours of duty.
 - Guideline B: Maximum duty in a working day should not exceed 14 hours
 - Guideline C: Driving duty in a working day should not exceed 11 hours
 - Guideline D: The break between successive working days should not be less than 10 hours
 - Guideline E: Bus Captains working for a duty of not less than 8 hours in a working day should have a meal break which no less than 45 minutes.

ROM System Proposal
System Functions Section

Real-time Bus Monitoring

7.2 Sample of System Functions
7.2.1 Real-time Bus Monitoring
7.2.1.1 Bus Display on map view
7.2.1.1.1 General View

Time:
Route: 1A Direction: TST Ferry Pier
7 TST Ferry Pier

Arrival time for each route:
Route Previous trip Next trip

(Click the bus station with mouse)

Information of telecommunications team

Traffic news

Information of temporary diversion:
1. Temporary closure of Canton Road:
2014-08-11 10:30-17:00
Routes affected: 271
Via: Kowloon Park Drive, Canton Road, Jordan Road, D3E Road, Jordan Road, Nga Cheung Road and Station Perimeter Road
Via: Station Perimeter Road, Nga Cheung Road, Austin Road West [illegible]

Message delivery (after completing this trip)

Bus Captain:
Message:

Send Cancel

Date:
20-08-2014
Time:
09:03
Bus captain: 77425 Chan Kwok Ming
Duty: 1A/05/morning

Licence plate:

HK7814
NA6991
R1384
HP1667
HK3332
PB1693

Bus captain:

77425
6828
6538

Bus captain: 77425 Chan Kwok Ming
Duty: 1A/05/morning
Driving speed: 68 km/hr (recording time: 09:02)
Estimated time for arrival at Cameron Road: 09:05
The bus is equipped with: , ultra low floor
(Click the bus with mouse)

1. Disseminate message
(Right click with mouse)

This bus has been delayed for 4 minutes

This bus has deviated from the originally designated route

Private licence plate

Delayed/overdue buses

Estimated arrival time for each route:
Route Previous trip
Spare bus: Spare captain:
--- 70135, 75386
(Click the terminus with mouse)

The departure of this bus has been delayed

預計各路線到站時間:
路線 下一班
1 03/ 09:21
234X 08/ 09:18
5A 09/ 09:11
: :
士啤車: 士啤車長
--- 70135, 75386
(滑鼠點擊巴士總站)

各路線到站時間:
路線 前一班 下一班
1 09/ 09:01 13/ 09:21
2 05/ 08:55 03/ 09:10
234X 11/ 09:08 17/ 09:18
: : :
(滑鼠點擊巴士站)

Real-time Bus Monitoring

ROM System Proposal
System Functions Section

7.2.1.1.1 Geo-fencing

Date:

20-08-2014

時間: -

路線:

1A

 方向:

尖沙咀

Licence plate:

HR7614

NA8693

KL1584

HP4367

HK5581

PB1632

Bus captain:

77425

6628

65138

72161

1894

Time:

Route:

1A

7

Direction:

TST Ferry Pier

TST Ferry Pier

Replay travelling record of the bus:

Time: HH:MM to HH:MM

Play speed: 32X

Geo-fence

Geo-fence

System time: 09:03

Bus routes passing through the geo-fence

13X, 208, 215P, 215X, 219X, 224X, 26, 28, 35A, 41A, 5, 5P, 8, 87D, 8A, 98D, 98P

Bus routes passing through the geo-fence

5C/05: HR3318

26/12: PB20929

User may adjust his/her own setting to switch on or off the information to be displayed of a bus/bus stop/terminus.

Bus in Service

Bus not in Service

Bus lost of GPS signal

312
4682-2

[illegible]

ROM System Proposal
System Functions Section

Departure Management

7.2.2 Departure Management
7.2.2.1 Incident Board – Incident Board shown on OCC Display

| Bus Operations Control Centre: Lai Chi Kok | | | | | | System time: 2014-08-01 09:34:12 | | |
|--|---|-------|----------------|----------------|------------|--|------------|------------------|
| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Inputter | Input time | Reference number |
| Wong Tai Tung | Arrival will be delayed | C 8A | 01 | 1155 | RJ6184 | ROM | 09:32:47 | 31668 |
| Heung Chi Leung | Late arrival without reason | C46 | 05 | 65325 | KL6385 | ROM | 09:33:51 | 31675 |
| Lee Chiu | Staff unavailable | C12 | 05 | 66421 | GZ4853 | TOM | 08:45:20 | 31523 |
| Wong Tai Tung | Bus unavailable | C 2A | 06 | 65558 | KR4350 | TOM | 08:45:20 | 31513 |
| Ho Siu Ming | Not yet arrived Affecting future departure | C40 | 03 | 65318 | KW3187 | Wong Tai Tung | 09:18:05 | 31608 |
| Heung Chi Leung | Bus breakdown | C108 | 02 | 73493 | MM2038 | Lee Chiu | 08:12:16 | 31468 |
| Lee Chiu | Early leave of captain | C42A | 07 | 77251 | JK1583 | Ho Siu Ming | 09:12:06 | 31594 |
| Heung Chi Leung | Traffic accident | C39A | 05 | 85047 | LM2168 | OCM | 07:45:20 | 31353 |
| Wong Tai Tung | Handling lost property – keep for future handling | C43A | 08 | 70524 | MK5518 | Wong Tai Tung | 07:50:10 | 31381 |
| Lee Chiu | Deviated from driving route | C35A | 04 | 73914 | ND6181 | ROM | 09:28:20 | 31618 |
| | Incidents not yet confirmed for handling by | | | | | : | | |
| | | | | | | : | | |
| | | | | | | : | | |
| | | | | | | Outstanding incidents on display 1. Automatic detection by the system 2. Input by dispatcher | | |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.2 Route Performance Board

Bus Operations Control Centre: Lai Chi Kok

| Route | To | Late | Early | -/0/+ | Longest delay | | Longest ahead of time | | Accumulated this month | Cumulative same-day lost trips rate | | | |
|-------|-------------------------|------|-------|-------|---------------|----------------|-----------------------|----------------|------------------------|-------------------------------------|--------------|--------------|--------------|
| | | | | | Minutes | Running number | Minutes | Running number | Lost trips rate | 0500-1000 | 1000-1500 | 1500-2000 | 2000-0200 |
| 2A | Mei Foo | | | | 0/3/2 | -4 | 06 | 45 | 105 | | | | |
| | Lok Wah | | | | 2/3/2 | -4 | 06 | 49 | 105 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| 6 | Mei Foo | | | | 2/8/0 | -9 | 03 | 45 | 07 | | | | |
| | Lai Chi Kok | | | | 3/6/2 | -9 | 03 | 45 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| 6C | Mei Foo | | | | 5/6/2 | -12 | 504 | 48 | 06 | | | | |
| | Kowloon City Ferry Pier | | | | 3/10/2 | -12 | 504 | 48 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| | | | | | 3/3/2 | -8 | 09 | 49 | 02 | | | | |
| 6D | Mei Foo | | | | 1/5/2 | -8 | 09 | 49 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| 6X | Ngau Tau Kok | | | | 0/4/1 | - | | 43 | 03 | | 0/8 (0%) | | |
| | Middle Road | | | | 1/6/2 | -4 | 05 | 46 | 01 | | | | |
| 28 | Mody Road | | | | 2/6/0 | -4 | 05 | 46 | 01 | 1.34% | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) |
| | Mody Road | | | | 4/2/2 | -6 | 07 | 45 | 03 | | | | |
| 30 | Cheung Sha Wan | | | | 2/7/0 | -6 | 07 | 45 | 03 | 3.84% | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) |
| | Allway Garden | | | | 0/4/0 | - | | | | | | | |
| 38A | Mei Foo | | | | 0/4/0 | - | | | | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| | Riviera Gardens | | | | 3/10/2 | -5 | 511 | 49 | 08 | | | | |
| 46X | Mei Foo | | | | 2/14/1 | -5 | 511 | 49 | 08 | 1.78% | 4/84 (4.76%) | 4/84 (4.76%) | 4/84 (4.76%) |
| | Hin Keng | | | | 3/5/1 | -5 | 05 | 43 | 09 | | | | |
| 72 | Cheung Sha Wan | | | | 1/3/4 | -4 | 05 | 41 | 05 | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| | Tai Wo | | | | 2/3/2 | -5 | 02 | 47 | 502 | | | | |
| 85 | Mei Foo | | | | 1/4/2 | -5 | 02 | 47 | 502 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| | Wong Nai Tau | | | | 0/5/0 | - | | 46 | 03 | | | | |
| 86A | Kom Tsun Street | | | | 2/4/2 | - | | 44 | 103 | 1.91% | 2/49 (4.08%) | 2/49 (4.08%) | 2/49 (4.08%) |
| | Sha Tin Wai | | | | 3/13/0 | -4 | 08 | 43 | 505 | | | | |
| 102 | Mei Foo | | | | 1/8/2 | -4 | 08 | 43 | 505 | 1.58% | 3/36 (8.33%) | 3/36 (8.33%) | 3/36 (8.33%) |
| | Shau Kei Wan | | | | 4/12/3 | -6 | 513 | 44 | 06 | | | | |
| 102P | Shau Kei Wan | | | | | | | | | 1.91% | 2/49 (4.08%) | 2/49 (4.08%) | 2/49 (4.08%) |

7.2.2.3 Dispatcher Monitor Board



| | Route | To | Late | Early | -/0/+ | Longest delay | | Longest ahead of time | | Accumulated this month | Cumulative same-day lost trips rate | | | |
|--|-------|-------------------------|------|-------|---|---------------|----------------|-----------------------|----------------|------------------------|-------------------------------------|--------------|--------------|--------------|
| | | | | | | Minutes | Running number | Minutes | Running number | Lost trips rate | 0500-1000 | 1000-1500 | 1500-2000 | 2000-0200 |
| Confirm handling of the incident | 2A | Mei Foo | | | 0/3/2 | -4 | 06 | +9 | 069 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| Referral to dispatcher | | Lok Wah | | | 2/3/2 | -4 | 06 | +9 | 069 | | | | | |
| Objection to handling the incident | 6 | Mei Foo | | | 2/8/0 | -9 | 03 | +5 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| Need not handle the incident | | Lai Chi Kok | | | 3/6/2 | -9 | 03 | +5 | 07 | | | | | |
| Completion of the incident | 6C | Mei Foo | | | 3/3/2 | -8 | 09 | +6 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| | | Kowloon City Ferry Pier | | | 1/5/2 | -8 | 09 | +6 | 02 | | | | | |
| Handle the incident | | Kowloon City Ferry Pier | | | 0/4/1 | - | - | +3 | 03 | | | | | |
| | | | | 1/6/2 | -4 | 05 | +6 | 01 | 1.34% | 2/47 | Main routes for handling | | 47 (4.26%) | 2/47 (4.26%) |
| The system will be switched to detailed driving schedule | 6D | Mei Foo | | | 2/6/0 | -4 | 05 | +6 | 01 | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| | | | | 0/4/0 | - | - | - | - | | | | | | |
| | 6X | Ngau Tau Kok | | | 0/4/0 | - | - | - | - | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| | | Middle Road | | | 2/5/1 | -4 | 05 | +11 | 09 | | | | | |
| | 28 | Mody Road | | | The system will assign the incident to the dispatcher of this route/trip. If no dispatcher is available, the incident will be arranged/handled by the chief instructor of the control centre. | -4 | 05 | +11 | 09 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| | | | | | -5 | 02 | +7 | S02 | | | | | | |
| | | | | -5 | 02 | +7 | S02 | | | | | | | |
| 30 | | | | | -12 | S04 | +4 | 05 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | |
| | | | | -12 | S04 | +4 | 06 | | | | | | | |
| | 30 | Cheung Sha Wan | | | 4/2/2 | -6 | 07 | +5 | 03 | 1.84% | Auxiliary routes for handling | 2/24 (8.33%) | 2/24 (8.33%) | |
| | | Allway Garden | | | 2/7/0 | -6 | 07 | +5 | 03 | | | | | |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.3.1 Record call-in incident

Dispatcher Status of the incident System time: 2014-08-01 09:34:12

| Dispatcher | 車次 | 車長 | 車牌 | 車次 | 車長 | 車牌 |
|------------------|-----|-----|-----|-----|-----|-----|
| Cheung Chi Leung | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 |
| Cheung Chi Leung | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 |
| Cheung Chi Leung | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 |
| Cheung Chi Leung | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 |
| Cheung Chi Leung | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 |
| Cheung Chi Leung | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 |
| Cheung Chi Leung | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 | 張子良 |

Route

| Route | 車次 | 車長 | 車牌 |
|-------|-----|-----|-----|
| 2A | 張子良 | 張子良 | 張子良 |
| 6 | 張子良 | 張子良 | 張子良 |
| 6D | 張子良 | 張子良 | 張子良 |
| 6X | 張子良 | 張子良 | 張子良 |
| 28 | 張子良 | 張子良 | 張子良 |
| 38A | 張子良 | 張子良 | 張子良 |
| 72 | 張子良 | 張子良 | 張子良 |
| 86 | 張子良 | 張子良 | 張子良 |
| 6C | 張子良 | 張子良 | 張子良 |
| 30 | 張子良 | 張子良 | 張子良 |

車輛: 車長:

已記錄事件:

| 參考編號 | 時間 | 事件類別 | 路線 | 字軌 | 車輛 | 車長 | 資料補充 |
|------|----|------|----|----|----|----|------|
| | | | | | | | 編輯 |
| | | | | | | | 編輯 |
| | | | | | | | 編輯 |

(新增)事件類別: (壞車/交通意外/失物處理/其他事項) 新增

新增事件 - 壞車

車牌: 時間: :

地點: 站頭 中途

時間: : 往維修 車長 維修站 / 車廠

時間: : 車長用膳 至

時間: : 車長收工

時間: : 車長自行往站頭候命 站頭

時間: : 重新入線 車輛 調頭/中途起載

儲存 取消

(Translation of the form in next page)

Bus
Recorded incident

Captain

Search

| Reference number | Time | Type of incident | Route | Running number | Bus | Captain | Supplementary data |
|------------------|------|------------------|-------|----------------|-----|---------|--------------------|
| | | | | | | | Edit |
| | | | | | | | Edit |
| | | | | | | | Edit |

[Add] Type of incident

:

Bus broken

(Bus broken/traffic accident/Handling lost property/Other matters)

Add

New incident - Bus broken

Licence plate

Time

:

Location

Stop flag

Halfway

Time

:

For repair

Captain

Time

:

Captain for meal

To

:

Time

:

Captain off duty

Stop flag

Time

:

Captain to standby at stop

Bus

Time

:

Re-entering the route

Reversed/boarding midway

Service centre

Bus depot

Save

Cancel

Departure Management

ROM System Proposal
System Functions Section

7.2.2.4 Message dissemination to OCC

Scope for message dissemination

| Route | Direction | Select all |
|------------------------------|------------------------|-------------------------------------|
| <input type="checkbox"/> 2A | To Mei Foo | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> 2A | To Lok Wah | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> 6 | To TST Ferry Pier | <input type="checkbox"/> |
| <input type="checkbox"/> 6 | To Lai Chi Kok | <input type="checkbox"/> |
| <input type="checkbox"/> 6D | To Ngau Tau Kok | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> 6D | To Mei Foo | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> 6X | To Middle Road | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> 6X | To Mei Foo | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> 905 | To Lai Chi Kok | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> 905 | To Wan Chai Ferry Pier | <input checked="" type="checkbox"/> |

System will display all routes for user selection

Allow user to select affected route(s) by specifying a geofence on the map.

Date of dissemination
n / /

Captain number

Bus number

Message status:

Current message / Completed message / All messages

Date of message dissemination

Disseminate to

Message

Sender

Edit/copy

04/09/2014 18:20

All routes

Due to the water main burst across Lei On Court, Kwun Tong Road (Yau Tong bound) is congested with the end of the queue at: Kowloon Bay MTR Station

Company radio

Edit/copy

04/09/2014 18:05

All routes

Due to the water main burst on Lei Yue Mun Road near Lei On Court, only one lane is opened to Yau Tong. Tseung Kwan O Road to Kwun Tong has many vehicles near Tsui Ping South Estate with slow moving traffic. (HKT 18:20)

Company radio

Edit/copy

04/09/2014 18:00

107, 170, 671
62X, 238P, 238D, 239D.

Canal Road Flyover to the Aberdeen Tunnel near bridge surface at Hennessy Road has a broken car blocking, with the end of the queue at: Wan Chai Interchange. (HKT 18:05)

Company radio

Edit/copy

04/09/2014 17:55

All vehicles have a U-turn at the Kwun Tong Road Roundabout.

Tuen Mun Bus Operations

Edit/copy

Message dissemination

Sender or sending group

Recipient Dispatcher

Date 88/88/88 - 88/88/88

Time slot 99:99 - 99:99

Type of message Traffic accident / Bus breakdown / Road construction / Water main burst / Bus operations information

Status: New/Clear/Follow

Send

| Dispatchers who confirmed the message | | |
|---------------------------------------|----------------------|-------------|
| Dispatcher | Time of confirmation | OCC |
| Lee Chiu | | Lai Chi Kok |
| Wong Tai Tung | 20-09-2014 10:24 | Lai Chi Kok |
| Ho Siu Ming | 20-09-2014 10:24 | Lai Chi Kok |
| Cheung Chi Leung | 20-09-2014 10:24 | Lai Chi Kok |

| | | | | | | | |
|-------------------------------|----|----------------|---------|------------|--|-----------------|--|
| Date of dissemination | // | Captain number | | Bus number | | Message status: | Current message / Completed message / All messages |
| Date of message dissemination | | Disseminate to | Message | | | | Sender |

Departure Management

Scope for message dissemination

| Route | Direction | Select all |
|-------|------------------------|-------------------------------------|
| 2A | To Mei Foo | <input type="checkbox"/> |
| 2A | To Lok Wah | <input type="checkbox"/> |
| 5 | To TST Ferry Pier | <input type="checkbox"/> |
| 5 | To Lai Chi Kok | <input type="checkbox"/> |
| 60 | To Ngau Tau Kok | <input checked="" type="checkbox"/> |
| 60 | To Mei Foo | <input checked="" type="checkbox"/> |
| 60X | To Middle Road | <input checked="" type="checkbox"/> |
| 60X | To Mei Foo | <input checked="" type="checkbox"/> |
| 905 | To Lai Chi Kok | <input checked="" type="checkbox"/> |
| 905 | To Wan Chai Ferry Pier | <input checked="" type="checkbox"/> |

ROM System Proposal
System Functions Section

日期: // 車長編號: 車輛編號: 訊息狀況: 現行訊息 / 完成訊息 / 所有訊息

受影

Road section affected

受影響路線:

| 路線 | 方向 | 全選 |
|------|-------|-------------------------------------|
| 8 | 尖嘴 | <input checked="" type="checkbox"/> |
| 8 | 九龍鐵路站 | <input checked="" type="checkbox"/> |
| 36B | 梨木樹 | <input checked="" type="checkbox"/> |
| 36B | 渡華路 | <input checked="" type="checkbox"/> |
| 42A | 長亨 | <input checked="" type="checkbox"/> |
| 42A | 渡華路 | <input checked="" type="checkbox"/> |
| 46 | 麗達 | <input checked="" type="checkbox"/> |
| 46 | 渡華路 | <input checked="" type="checkbox"/> |
| 60X | 屯門市中心 | <input checked="" type="checkbox"/> |
| 60X | 渡華路 | <input checked="" type="checkbox"/> |
| 63X | 田心路 | <input checked="" type="checkbox"/> |
| 63X | 渡華路 | <input checked="" type="checkbox"/> |
| 68X | 洪元路 | <input checked="" type="checkbox"/> |
| 68X | 渡華路 | <input checked="" type="checkbox"/> |
| 69X | 天瑞邨 | <input checked="" type="checkbox"/> |
| 69X | 渡華路 | <input checked="" type="checkbox"/> |
| 81 | 禾輦 | <input checked="" type="checkbox"/> |
| 81 | 渡華路 | <input checked="" type="checkbox"/> |
| 95 | 翠林 | <input checked="" type="checkbox"/> |
| 95 | 渡華路 | <input checked="" type="checkbox"/> |
| 203E | 彩虹 | <input checked="" type="checkbox"/> |
| 203E | 九龍鐵路站 | <input checked="" type="checkbox"/> |

Clear All

OK Cancel

Dispatchers who confirmed the message

| Dispatcher | Time of confirmation | OCC |
|----------------------|----------------------|------------|
| Route affected | | |
| Route | Direction | Select all |
| TST Ferry Pier | | |
| Kowloon Station | | |
| Lei Muk Shue | | |
| To Wah Road | | |
| Cheung Hang | | |
| To Wah Road | | |
| Lai Yiu | | |
| To Wah Road | | |
| Tuen Mun Town Centre | | |
| To Wah Road | | |
| Tin Sam Road | | |
| To Wah Road | | |
| Hung Yuen Road | | |
| To Wah Road | | |
| Tin Shui Road | | |
| To Wah Road | | |
| Wo Che | | |
| To Wah Road | | |
| Tsui Lam | | |
| To Wah Road | | |
| Choi Hung | | |
| Kowloon Station | | |

System will display all routes for user selection

You can also select the route affected from the current road section.

Departure Management

ROM System Proposal
System Functions Section

7.2.2.5 OCC Message dissemination

| | | | | | | | | | |
|---------------------------------|------------------------|-------------------------------------|--------------------------------|--------------------------------------|---|-----------------|--|-------------------------|-----------|
| Scope for message dissemination | | | Date of dissemination n / / | Captain number | Bus number | Message status: | Current message / Completed message / All messages | | |
| Route | Direction | Select all | Date of message dissemination | Disseminate to | Message | | | Sender | |
| 2A | To Mei Foo | <input checked="" type="checkbox"/> | | All routes | Due to the water main burst across Lei On Court, Kwun Tong Road (Yau Tong bound) is congested with the end of the queue at: Kowloon Bay MTR Station | | | Company radio | Edit/copy |
| 2A | To Lok Wah | <input checked="" type="checkbox"/> | | | Due to the water main burst on Lei Yue Mun Road near Lei On Court, only one lane is opened to Yau Tong. Tseung Kwan O Road to Kwun Tong has many vehicles near Tsui Ping South Estate with slow moving traffic. (HKT 18:20) | | | Company radio | Edit/copy |
| 6 | To TST Ferry Pier | <input checked="" type="checkbox"/> | 04/09/2014 18:20 | All routes | Canal Road Flyover to the Aberdeen Tunnel near bridge surface at Hennessy Road has a broken car blocking, with the end of the queue at: Wan Chai Interchange. (HKT 18:05) | | | Company radio | Edit/copy |
| 6 | To Lai Chi Kok | <input checked="" type="checkbox"/> | 04/09/2014 18:05 | | All vehicles have a U-turn at the Kwun Tong Road Roundabout. | | | Tuen Mun Bus Operations | Edit/copy |
| 6D | To Ngau Tau Kok | <input checked="" type="checkbox"/> | 04/09/2014 18:00 | 107, 170, 671, 62X, 258P, 258D, 258D | | | | | |
| 6D | To Mei Foo | <input checked="" type="checkbox"/> | 04/09/2014 17:55 | | | | | | |
| 6X | To Middle Road | <input checked="" type="checkbox"/> | | | | | | | |
| 6X | To Mei Foo | <input checked="" type="checkbox"/> | | | | | | | |
| 905 | To Lai Chi Kok | <input checked="" type="checkbox"/> | | | | | | | |
| 905 | To Wan Chai Ferry Pier | <input checked="" type="checkbox"/> | | | | | | | |

System will display all routes for user selection

| | | |
|-------------------------------------|--|--------------------|
| Message dissemination | | |
| Recipient | Captain <input type="text"/> Bus <input type="text"/> | |
| Date | 88/88/88 - 88/88/88 | |
| Time slot | Instant display / departure time 99:99 - 99:99 | |
| Displayed on | Upon arrival/ before departure / Display when delay? <input type="text"/> Yes/No | |
| Degree of importance of the message | | |
| Display times | Next trip/Each future trip Display Mode <input type="text"/> Single/Combined | |
| Type of message | First trip of the captain after each shift change Last trip of the captain on each shift First trip of the previous shift/last trip of the previous shift First trip of the next shift/last trip of the next shift First trip/last trip of the captain for the day Task indication/temporary message/ Data collection/safety information | |
| Request response | Need/No need Duration of display <input type="text"/> seconds | |
| Message 1 | Message Confirmation button Options Options | |
| Message 2 | Please enter the number of passengers Enter <input type="text"/> 1 <input type="text"/> | |
| | Is there any damage of equipment on the bus? <input type="text"/> 1 Yes | |
| | | 2 No |
| Message 3 | What equipment is damaged? Enter <input type="text"/> 1 XXXX | |
| | | 2 XXXX Disseminate |

Board of Dispatcher

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed | |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|-------|
| Cheung Chi Leung | Late arrival without reason | | | C46 | 05 | 05325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | | | | | |
| Cheung Chi Leung | Bus broken | | | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | | | C39A | 05 | 85047 | LM2168 | 07:38 | 08:28 | | 31353 | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | | | | | | | | | | | | | | | | | | | |

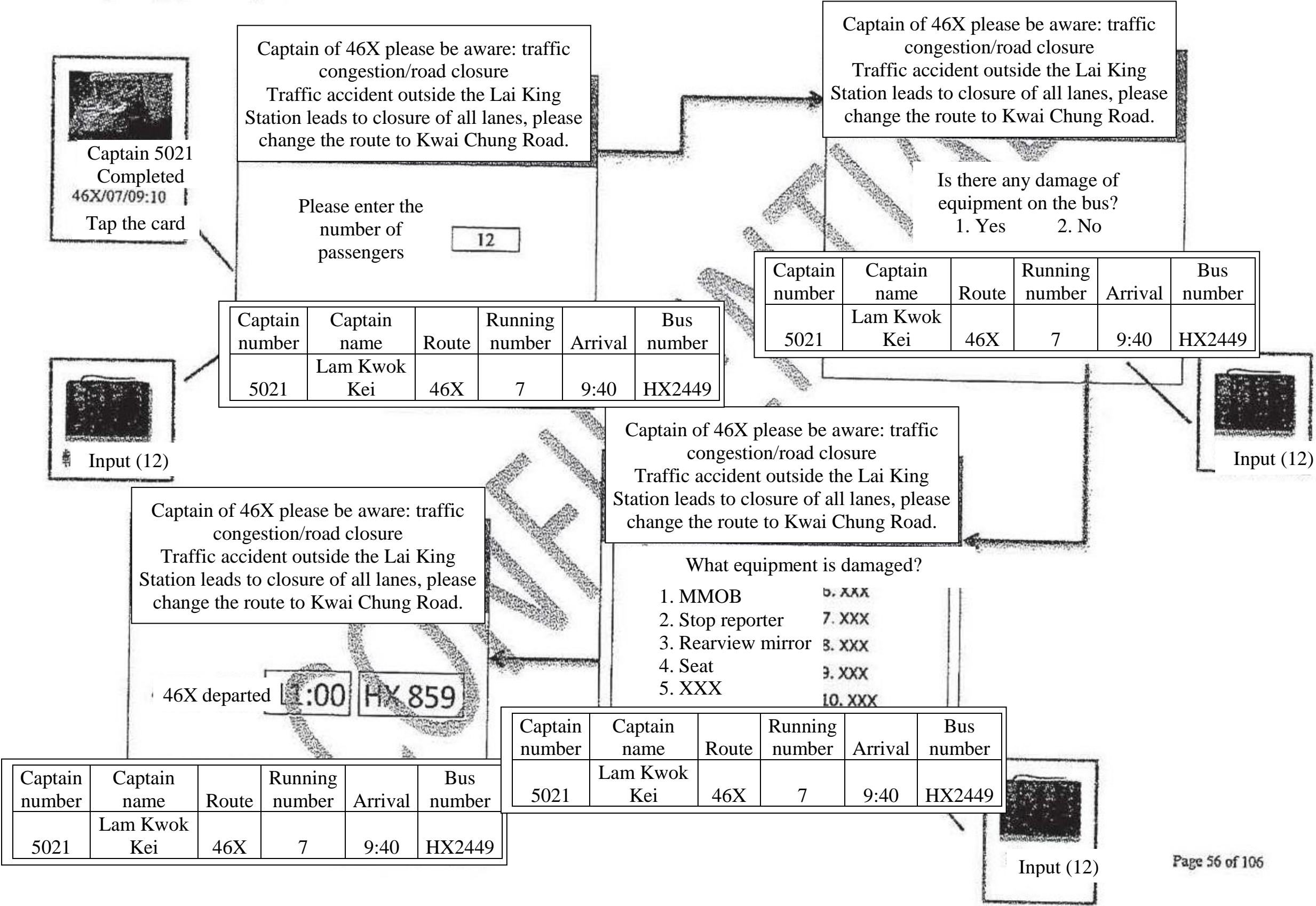
Information of telecommunications team

| Type | Content | Route affected | Status | Time |
|-------------------|--|------------------|-----------|-------|
| Traffic accident | Gloucester Road to Central | 107L, 309L, 310L | New | 12:27 |
| Road construction | Prince Edward Road West to Mong Kok | 1, 3A, 2, 2A | New | 12:35 |
| Traffic accident | Waterloo Road to Yau Ma Tei | 9C, 7, 85C, 8 | Clear | 11:09 |
| Traffic accident | Salisbury Road to Hung Hom | 5, 5A, 5C, 6 | Clear | 10:35 |
| Traffic accident | Route 3 to Tsim Sha Tsui | | Clear | 10:08 |
| Traffic accident | Salisbury Road to Hung Hom | | New | 10:06 |
| Busy traffic | School region of Ho Man Tin | | Clear | 09:38 |
| Busy traffic | School region of Kowloon Tong | | Clear | 09:28 |
| Busy traffic | School region in Mid-levels of North Point, Hong Kong Island | | Clear | 09:57 |
| Traffic accident | Waterloo Road to Yau Ma Tei | | Clear | 09:30 |
| Traffic accident | Route 3 to Tsim Sha Tsui | | New | 09:27 |
| Traffic accident | Gascoigne Road Flyover to Hung Hom | | Clear | 09:00 |
| Traffic accident | Tolo Highway to Kowloon | | Clear | 08:31 |
| Traffic accident | Gascoigne Road Flyover to Hung Hom | | New | 08:27 |
| Car broken | Lion Rock Tunnel Road to Kowloon | | Clear | 08:05 |
| Traffic accident | Tai Po Road to Tai Wai | | Follow-up | 08:03 |
| Car broken | Lung Cheung Road to Tsuen Wan | | New | 07:55 |
| Busy traffic | School region of Kowloon Tong | | New | 07:49 |
| Busy traffic | School region of Ho Man Tin | | New | 07:46 |
| Traffic accident | Tai Po Road to Tai Wai | | New | 07:45 |
| Busy traffic | School region in Mid-levels of North Point, Hong Kong Island | | New | 07:34 |
| Car broken | Lion Rock Tunnel Road to Kowloon | | Follow-up | 07:20 |
| Car broken | Lion Rock Tunnel Road to Kowloon | | New | 06:58 |
| Water main burst | Lei Yue Mun Road to Yau Tong | | Clear | 06:00 |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.6 Arrival Reporting by Bus Captain



ROM System Proposal

System Functions Section

System time: 10:00

Captain

Bus number

The image displays five sets of bus route timetables, each with a table of bus numbers and times, and a corresponding map of the route. The routes are:

- Mei Foo to Ngau Tau Kok:** The table shows bus numbers and times for various routes. A note indicates "(Bus breakdown)".
- Mei Foo to Hang Hau (North):** The table shows bus numbers and times for various routes. A note indicates "(Meal)".
- Mei Foo to Hin Keng:** The table shows bus numbers and times for various routes. A note indicates "(Meal)".
- Mei Foo to Sha Tin Depot:** The table shows bus numbers and times for various routes. A note indicates "(Meal)".
- Pak Tin to Kennedy Town:** The table shows bus numbers and times for various routes. A note indicates "(Meal)".

Arrows point to specific entries in the tables, such as "Mei Foo to Sha Tin Depot" and "Pak Tin to Kennedy Town".

Departure Management

ROM System Proposal
System Functions Section

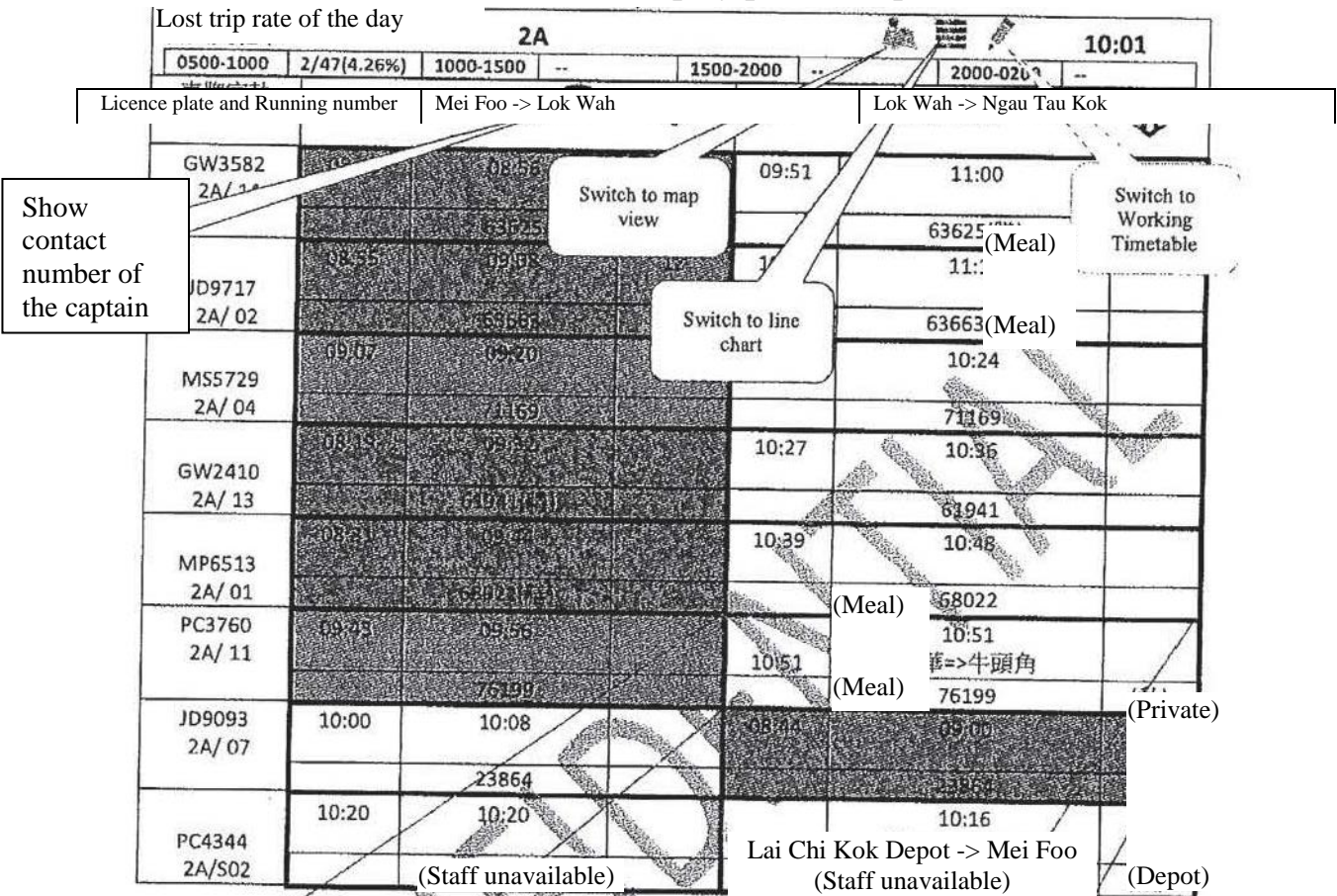
7.2.2.8 Single Arrival and Departure Monitoring

| | | | | | |
|----------------------------------|-------------|---------------------|----|-------------------------|-----------------|
| 當天失班率: Lost trip rate of the day | | 2A | | 10:01 | |
| 0500-1000 | 2/47(4.26%) | 1000-1500 | -- | 1500-2000 | -- |
| Licence plate and Running number | | Mei Foo -> Lok Wah | | Lok Wah -> Ngau Tau Kok | |
| GW3582 2A/ 14 | 09:05 | 09:56 | 5 | 09:51 | 11:00 |
| | | 63625 | | | 63625(Meal) |
| JD9717 2A/ 02 | 09:58 | 09:08 | 12 | 10:03 | 11:1 |
| | | 63663 | | | 63663(Meal) |
| M55729 2A/ 04 | 09:07 | 09:20 | 12 | 10:15 | 10:24 |
| | | 71169 | | | 71169 |
| GW2410 2A/ 13 | 09:19 | 09:38 | 12 | 10:27 | 10:36 |
| | | 61941 | | | 61941 |
| MP6513 2A/ 01 | 09:31 | 09:31 | 12 | 10:39 | 10:48 |
| | | 68022 | | | 68022 |
| PC3760 2A/ 11 | 09:49 | 09:55 | 12 | 10:51 | 10:51 |
| | | 76199 | | | 76199 (Private) |
| JD9093 2A/ 07 | 10:00 | 10:08 | 12 | 10:00 | 10:00 |
| | | 23864 | | | 23864 |
| PC4344 2A/ S02 | 10:20 | 10:20 | 12 | 10:16 | 10:16 |
| | | (Staff unavailable) | | (Staff unavailable) | (Depot) |
| LF3614 2A/ 03 | 09:19 | 10:32 | 12 | 11:32 | 11:36 |
| | | 74658 | | | 74658 |
| KR4350 2A/ 06 | 09:25 | 10:00 | 12 | 11:44 | 11:48 |
| | | 69966 | | | 69966 |
| NE 714 2A/ 05 | 09:31 | 10:00 | 12 | 11:56 | 12:00 |
| | | 78696 | | | 78696 |
| GW2556 2A/ 16 | 11:00 | 11:08 | 12 | 10:00 | 10:00 |
| | | 18635 | | | 18635 |
| JA9579 2A/ S01 | 11:12 | 11:20 | 12 | 10:12 | 10:12 |
| | | 73252 | | | 73252 |
| PC3112 2A/ 15 | 10:12 | 11:30 | 10 | 09:08 | 09:12 |
| | | 68802 | | | 68802 |
| RE 508 2A/ 08 | 10:24 | 11:4 | 10 | 09:15 | 09:24 |
| | | 28476 | | | 28476 |
| PC3522 2A/ 12 | 10:36 | 11:5 | 15 | 09:27 | 09:36 |
| | | 69800 | | | 69800 |
| MZ2851 2A/ 09 | 10:48 | 12:0 | 5 | 09:39 | 09:48 |
| | | 63665 | | | 63665 |

Departure Management

ROM System Proposal
System Functions Section

✓ Display closed Running number ✓ Display private/depot ✓ Only departure from terminus



| | | |
|---|---|---|
| Scheduled/estimated/actual arrival time of the previous trip | Scheduled/actual departure time Display start point => end point (if different from the end point indicated at the title) | The time gap with departure of previous bus |
| Travelling route of the bus (if it is different from the route indicated by the title) | Captain number, meal condition (meal, tea) | Display nature of the trip (private, depot) |

Background colors indicate:

| |
|--|
| Previous trip has arrived |
| Previous trip has departed but not yet arrived |
| Previous trip has not departed |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.9 Maintain Working Timetable

7.2.2.9.1 Working Timetable – Time View

Date
20-08-2014

Time
99:99 - 99:99

Route

Direction

SBM

SBM

SBP

SBP

SBM

SBM

To Leung King

To Kwai Fong

To Leung King

To Kwai Fong

To Tuen Mun Ferry Pier

To Tsuen Wan

Licence plate

HR7614

NA3693

KL1584

HP4367

HK5581

FB1632

Captain

77425

6528

65138

72161

1834

Working timetable (F12)

Message dissemination (F10)

Sort by: Vehicle / Bus Length / Time

| Route | Vehicle carried in | Vehicle carried away | Vehicle duty | Scheduled departure | Scheduled arrival | Arrival at midway station | Arrival time | E T A | Start point | End point | Captain carried in | Captain carried away | Captain duty | Cumulative/continuous working time | Meal | Bus break down | Accident |
|-----------|--------------------|----------------------|--------------|---------------------|-------------------|---------------------------|--------------|-------|-------------------|------------------------|--------------------|----------------------|--------------|------------------------------------|---------|----------------|----------|
| (Private) | | | | | | | | | Kwai Fong Station | Leung King Estate | | | | | Morning | (Meal) | |
| (Private) | | | | | | | | | Leung King Estate | Kwai Fong Station | | | | | Morning | (Meal) | |
| (Private) | | | | | | | | | Kwai Fong Station | Kwai Fong Station | | | | | Morning | (Meal) | |
| (Private) | | | | | | | | | Leung King Estate | Kwai Fong Station | | | | | | | |
| (Private) | | | | | | | | | Kwai Fong Station | Leung King Estate | | | | | | | |
| (Private) | | | | | | | | | Kwai Fong Station | Kin Sang Estate | | | | | | | |
| (Depot) | | | | | | | | | Leung King Estate | Kwai Fong Station | | | | | | | |
| (Depot) | | | | | | | | | Kwai Fong Station | Tuen Mun (South) Depot | | | | | | | |
| (Depot) | | | | | | | | | Kwai Fong Station | Tuen Mun (South) Depot | | | | | | | |
| (Depot) | | | | | | | | | Kwai Fong Station | Leung King Estate | | | | | | | |
| (Depot) | | | | | | | | | Leung King Estate | Kwai Fong Station | | | | | | | |
| (Depot) | | | | | | | | | Kwai Fong Station | Tuen Mun (South) Depot | | | | | | | |
| (Depot) | | | | | | | | | Leung King Estate | Kwai Fong Station | | | | | | | |
| (Depot) | | | | | | | | | Kwai Fong Station | Tuen Mun (South) Depot | | | | | | | |
| (Depot) | | | | | | | | | Leung King Estate | Kwai Fong Station | | | | | | | |
| (Depot) | | | | | | | | | Kwai Fong Station | Tuen Mun (South) Depot | | | | | | | |
| (Depot) | | | | | | | | | Leung King Estate | Kwai Fong Station | | | | | | | |
| (Depot) | | | | | | | | | Kwai Fong Station | Tuen Mun (South) Depot | | | | | | | |
| (Depot) | | | | | | | | | Leung King Estate | Kwai Fong Station | | | | | | | |
| (Depot) | | | | | | | | | Kwai Fong Station | Tuen Mun (South) Depot | | | | | | | |
| (Depot) | | | | | | | | | Leung King Estate | Kwai Fong Station | | | | | | | |
| (Depot) | | | | | | | | | Kwai Fong Station | Tuen Mun (South) Depot | | | | | | | |
| (Private) | | | | | | | | | Leung King Estate | Tuen Mun (South) Depot | | | | | | | |
| (Private) | | | | | | | | | Kwai Fong Station | Leung King Estate | | | | | | | |
| (Private) | | | | | | | | | Kwai Fong Station | Leung King Estate | | | | | | | |
| (Depot) | | | | | | | | | Leung King Estate | Kwai Fong Station | | | | | | | |
| (Depot) | | | | | | | | | Leung King Estate | Tuen Mun (South) Depot | | | | | | | |

Cumulative lost trip rate of this route for the month
Cumulative lost trip rate of this route for the day
(0500-1000; 1000-1500; 1500-2000; 2000-0200)

Departure rate of the route:

Vehicle information:

Captain Information:

Captain: 64381 XXX (monthly salary)

Duty: 58M/15/morning

Meal time: 99:99 – 99:99

Data of accidents:

Overtime travelling:

Position: 58M/15

Scheduled departure time: 10:13

Actual arrival time: 10:16

Reasons for being late:

Route details:

Statistical information:

Resources re-allocation

Disseminate message

Adjust frequencies

Stop delivery of the captain's message

Board of Dispatcher

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Bus broken | | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.9.2 Working Timetable – Bus View

Bus: KJ2052 Route: Running number

Sort by: Vehicle / Bus Length / Time

| | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|--|---|---|--|---|
| 58M/01 J03409 | 58M/02 J03405 | 58M/03 J03417 | 58M/04 J03424 | 58M/05 J03430 | 58M/06 J03437 | 58M/07 J03443 | 58M/08 J03450 | 58M/09 J03456 | 58M/10 J03463 | 58M/11 J03469 | 58M/12 J03476 | 58M/13 J03482 |
| 05:32 66187 | 05:32 66187 | 05:41 60582 | 05:41 60582 | 05:50 71733 | 05:50 71733 | 05:59 62569 | 06:07 72460 | 06:15 60005 | 06:25 60005 | 06:35 60005 | 06:45 60005 | 06:47 60005 |
| (Depot) Roof of General Repair Centre => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Kin Sang Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Roof of General Repair Centre => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Roof of General Repair Centre => Kin Sang Estate | (Depot) Tuen Mun (South) Depot => Kin Sang Estate |
| 05:35 66187 | 05:41 60582 | 05:51 60583 | 06:00 60583 | 06:00 71733 | 06:09 62569 | 06:18 72460 | 06:27 60005 | 06:36 60005 | 06:46 60005 | 06:56 60005 | 07:05 60005 | 07:07 60005 |
| Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Kin Sang Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Kin Sang Estate => Kwai Fong Station | Kin Sang Estate => Kwai Fong Station |
| 06:20 66187 | 06:26 60582 | 06:36 60583 | 06:45 60583 | 06:54 71733 | 07:03 62569 | 07:12 72460 | 07:21 60005 | 07:30 60005 | 07:40 60005 | 07:50 60005 | 08:00 60005 | 08:02 60005 |
| Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | (Private) Kwai Fong Station => Leung King Estate | (Private) Kwai Fong Station => Leung King Estate | (Private) Kwai Fong Station => Po Tin | (Private) Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | (Private) Kwai Fong Station => Leung King Estate |
| 07:10 66187 | 07:16 60582 | 07:26 60583 | 07:35 60583 | 07:44 71733 | 07:53 62569 | 08:02 72460 | 08:11 60005 | 08:20 60005 | 08:30 60005 | 08:40 60005 | 08:50 60005 | 08:52 60005 |
| Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Po Tin => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station |
| 08:21 66187 | 08:27 60582 | 08:37 60583 | 08:46 60583 | 08:55 71733 | 09:04 62569 | 09:13 72460 | 09:22 60005 | 09:31 60005 | 09:41 60005 | 09:51 60005 | 10:00 60005 | 10:02 60005 |
| (Depot) Kwai Fong Station => Tuen Mun (South) Depot | (Private) Kwai Fong Station => Leung King Estate | (Private) Kwai Fong Station => Leung King Estate | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | Kwai Fong Station => Leung King Estate | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | (Private) Kwai Fong Station => Leung King Estate | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | Kwai Fong Station => Leung King Estate | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate |
| 10:37 66187 | 10:43 60582 | 10:53 60583 | 11:02 60583 | 11:11 71733 | 11:20 62569 | 11:29 72460 | 11:38 60005 | 11:47 60005 | 11:57 60005 | 12:06 60005 | 12:15 60005 | 12:17 60005 |
| (Meal) | (Meal) | (Meal) | (Meal) | (Meal) | (Meal) | (Meal) | (Meal) | (Meal) | (Meal) | (Meal) | (Meal) | (Meal) |
| (Depot) Tuen Mun (South) Depot => Leung King Estate | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | Leung King Estate => Kwai Fong Station | (Depot) Tuen Mun (South) Depot => Leung King Estate | Leung King Estate => Kwai Fong Station | (Depot) Tuen Mun (South) Depot => Leung King Estate | Leung King Estate => Kwai Fong Station | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | Leung King Estate => Kwai Fong Station |
| 11:47 66187 | 11:53 60582 | 12:03 60583 | 12:12 60583 | 12:21 71733 | 12:30 62569 | 12:39 72460 | 12:48 60005 | 12:57 60005 | 13:07 60005 | 13:16 60005 | 13:25 60005 | 13:27 60005 |
| Leung King Estate => Kwai Fong Station | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Kwai Fong Station => Leung King Estate | Leung King Estate => Kwai Fong Station | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | Leung King Estate => Kwai Fong Station | Kwai Fong Station => Leung King Estate | Leung King Estate => Kwai Fong Station | (Depot) Tuen Mun (South) Depot => Leung King Estate | Kwai Fong Station => Leung King Estate |

Board of Dispatcher

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Bus broken | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Traffic accident | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | | | | | | | | | | | | | | | | | | |

Duties for related captain

60804 Lee Chi Kwong
Tuen Mun / monthly salary:
Duty: 58M/10/morning
Working hours: 06:49 - 14:24
Working hours cumulative: 3.25 / continuous: 3.25
Meal: 10:10

71306 Chan Ming Tuen Mun / daily salary:
Duty:
58M/S13/morning
Working hours: 07:52 - 21:06
Working hours cumulative: 2.55 / continuous: 2.55
Meal: --

Departure Management

ROM System Proposal
System Fucntions Section

7.2.2.9.3 Working Timetable – BC View

Captain: 60804 Route Running number: Shift:

Sort by: Vehicle/ Bus Length /Time

| | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|--|---|---|--|---|---|
| 58M/01/早 65137 | 58M/02/早 60127 | 58M/03/早 50583 | 58M/04/早 1135 | 58M/05/早 71733 | 58M/06/早 82258 | 58M/07/早 72450 | 58M/08/早 85413 | 58M/09/早 60009 | 58M/10/早 82204 | 58M/11/早 71306 | 58M/12/早 50518 | 58M/13/早 60937 | 58M/14/早 50518 |
| 05:16 JU2409 | 05:25 JU2409 | 05:41 KV6817 | 05:50 JU2409 | 05:50 JV6830 | 05:54 JU2409 | 06:17 JU2409 | 06:17 JU2409 | 06:25 KV6817 | 06:25 KV6817 | 06:32 JU2409 | 06:32 KV6817 | 06:32 KV6817 | 06:32 KV6817 |
| (Depot) Roof of General Repair Centre => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Kin Sang Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Roof of General Repair Centre => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Roof of General Repair Centre => Kin Sang Estate | (Depot) Tuen Mun (South) Depot => Kin Sang Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate |
| 05:25 JU2409 | 05:41 KV6817 | 05:51 KV6817 | 05:54 JU2409 | 06:00 JV6830 | 06:04 JU2409 | 06:50 KV6817 | 06:50 KV6817 | 06:25 KV6817 | 06:25 KV6817 | 06:47 JV7191 | 06:47 JV7191 | 07:00 KV6817 | 07:00 KV6817 |
| Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Kin Sang Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Kin Sang Estate => Kwai Fong Station | Kin Sang Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station |
| 06:20 JU2409 | 06:25 JV6817 | 06:58 KV6817 | 06:58 KV6817 | 06:58 KV6817 | 06:58 KV6817 | 07:42 KV6817 | 07:42 KV6817 | 07:32 KV6817 | 07:32 KV6817 | 07:54 JV7191 | 07:54 JV7191 | 07:54 JV7191 | 07:54 JV7191 |
| Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | (Private) Kwai Fong Station => Leung King Estate | (Private) Kwai Fong Station => Leung King Estate | (Private) Kwai Fong Station => Po Tin | (Private) Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | (Private) Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate |
| 07:16 JU2409 | 07:16 JU2409 | 07:49 KV6817 | 07:49 KV6817 | 07:31 JV6830 | 07:31 JV6830 | 08:20 KV6817 | 08:20 KV6817 | 08:29 KV6817 | 08:29 KV6817 | 08:41 JV7191 | 08:41 JV7191 | 08:41 JV7191 | 08:41 JV7191 |
| Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Po Tin => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station |
| 08:11 JU2409 | 08:11 JU2409 | 08:59 KV6817 | 08:59 KV6817 | 08:41 JV6830 | 08:41 JV6830 | 09:20 KV6817 | 09:20 KV6817 | 09:30 KV6817 | 09:30 KV6817 | 09:46 JV7191 | 09:46 JV7191 | 09:46 JV7191 | 09:46 JV7191 |
| (Depot) Kwai Fong Station => Tuen Mun (South) Depot | (Private) Kwai Fong Station => Leung King Estate | (Private) Kwai Fong Station => Leung King Estate | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | Kwai Fong Station => Leung King Estate | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | (Private) Kwai Fong Station => Leung King Estate | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | Kwai Fong Station => Leung King Estate | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | (Depot) Kwai Fong Station => Tuen Mun (South) Depot |
| 09:11 KV6817 | 09:11 KV6817 | 09:20 KV6817 | 09:20 KV6817 | 09:21 KV6817 | 09:21 KV6817 | 09:31 KV6817 | 09:31 KV6817 | 09:37 KV6817 | 09:37 KV6817 | 10:05 KV6817 | 10:05 KV6817 | 10:05 KV6817 | 10:05 KV6817 |
| (Meal) Tuen Mun (South) Depot | (Meal) Leung King Estate | (Meal) Leung King Estate | (Meal) Tuen Mun (South) Depot | (Meal) Tuen Mun (South) Depot | (Meal) Leung King Estate | (Tea) Tuen Mun (South) Depot | Leung King Estate => Kwai Fong Station | (Meal) Tuen Mun (South) Depot | (Meal) Leung King Estate | (Meal) Tuen Mun (South) Depot | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Meal) Leung King Estate | (Meal) Tuen Mun (South) Depot |
| 10:37 JU2409 | 10:37 KV6817 | 10:38 KV6817 | 10:38 KV6817 | 11:02 JV6830 | 11:02 JV6830 | 11:04 KV6817 | 11:04 KV6817 | 12:10 KV6817 | 12:10 KV6817 | 12:19 KV6817 | 12:19 KV6817 | 11:58 KV6817 | 11:58 KV6817 |
| (Depot) Tuen Mun (South) Depot => Leung King Estate | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | (Depot) Tuen Mun (South) Depot => Leung King Estate | (Depot) Tuen Mun (South) Depot => Leung King Estate | Leung King Estate => Kwai Fong Station | (Depot) Tuen Mun (South) Depot => Leung King Estate | Leung King Estate => Kwai Fong Station | (Depot) Tuen Mun (South) Depot => Leung King Estate | Leung King Estate => Kwai Fong Station | (Meal) Tuen Mun (South) Depot | Leung King Estate => Kwai Fong Station | (Meal) Tuen Mun (South) Depot | (Depot) Tuen Mun (South) Depot => Leung King Estate |
| 10:47 JU2409 | 11:20 KV6817 | 11:50 KV6817 | 11:50 KV6817 | 11:12 JV6830 | 11:12 JV6830 | 11:21 KV6817 | 11:21 KV6817 | 12:20 KV6817 | 12:20 KV6817 | 12:29 KV6817 | 12:29 KV6817 | 12:50 KV6817 | 12:50 KV6817 |
| Leung King Estate => Kwai Fong Station | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Kwai Fong Station => Leung King Estate | Leung King Estate => Kwai Fong Station | (Meal) Tuen Mun (South) Depot | Leung King Estate => Kwai Fong Station | Kwai Fong Station => Leung King Estate | Leung King Estate => Kwai Fong Station | (Depot) Tuen Mun (South) Depot => Leung King Estate | Kwai Fong Station => Leung King Estate | Leung King Estate => Kwai Fong Station |
| 12:00 JU2409 | 12:00 KV6817 | 12:00 KV6817 | 12:00 KV6817 | 12:18 JV6830 | 12:18 JV6830 | 12:30 KV6817 | 12:30 KV6817 | 13:30 KV6817 | 13:30 KV6817 | 13:40 KV6817 | 13:40 KV6817 | 13:40 KV6817 | 13:40 KV6817 |
| Bus unavailable | Bus unavailable | Bus unavailable | Bus unavailable | Bus unavailable | Bus unavailable | Bus unavailable | Bus unavailable | Bus unavailable | Bus unavailable | Bus unavailable | Bus unavailable | Bus unavailable | Bus unavailable |

Duties for related captain

KJ2052/Duty: 58M/10
Parking location after first session of work:
Parking location after second session of work:
Order:

KC7617/Duty: 58M/S13
Parking location after first session of work:
Parking location after second session of work:
Order:

Board of Dispatcher

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Bus broken | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Traffic accident | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | | | | | | | | | | | | | | | | | | |

ROM System Proposal
System Functions Section

Departure Management

7.2.2.9.4 Working Timetable – Regulation Mode in Time View

Working timetable (F12) Message dissemination (F10) Sort by: Vehicle / Bus Length / Time

Date
20-08-2014

Time
99:99 - 99:99

Route Direction
To Leung King
To Kwai Fong
To Leung King
To Kwai Fong
To Tuen Mun Ferry Pier
To Tsuen Wan

Licence plate
+
HR7614
NA3695
KL1584
HP4357
HK5581
FB1632

Captain
+
71425
6528
65138
72161
1834

| Route | Bus | Vehicle position | Scheduled departure | Scheduled arrival | Start point | Midway boarding station | End point | Captain carried in | Captain carried away | Contact OCC | Duties of captain carried in | Duties of captain carried away | Frequency |
|-------|---------|------------------|---------------------|-------------------|------------------------|-------------------------|------------------------|--------------------|----------------------|-------------|------------------------------|--------------------------------|-----------|
| 58M | KV5817 | 58M/03 | 12:54 | 13:48 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | JV6715 | 58M/08 | 13:03 | 13:57 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | KV5817 | 58M/11 | 13:10 | 14:04 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | KV2052 | 58M/10 | 13:11 | 14:05 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | JV5680 | 58M/05 (Depot) | 13:29 | 13:39 | Leung King Estate | | Tuen Mun (South) Depot | | | | | | |
| 58M | JV7201 | 58M/15 | 13:29 | 14:14 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | JV71030 | 58M/15 | 13:29 | 14:14 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | JV6814 | 58M/12 (Depot) | 13:27 | 13:37 | Tuen Mun (South) Depot | | Leung King Estate | | | | | | |
| 58M | JV7632 | 58M/06 | 13:28 | 14:22 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | KV5817 | 58M/12 | 13:37 | 14:31 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | KV5817 | 58M/07 | 13:49 | 14:34 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | KU7538 | 58M/14 | 13:45 | 14:39 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | KV5817 | 58M/02 | 13:46 | 14:40 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | KV7401 | 58M/16 | 13:52 | 14:46 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | JV7054 | 58M/04 (Depot) | 13:54 | 14:14 | Leung King Estate | | Tuen Mun (South) Depot | | | | | | |
| 58M | KS 709 | 58M/96 | 13:54 | 14:48 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | KV5817 | 58M/03 | 14:00 | 14:44 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | KU8259 | 58M/13 | 14:07 | 14:56 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | KC7617 | 58M/S1 (Depot) | 14:07 | 14:27 | Leung King Estate | | Tuen Mun (South) Depot | | | | | | |
| 58M | JV6715 | 58M/08 | 14:10 | 15:04 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | 大連 | 960/11 | 14:11 | 15:13 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | KV5817 | 58M/02 | 14:20 | 15:14 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | JV7191 | 58M/11 | 14:28 | 15:22 | Leung King Estate | | Kwai Fong Station | | | | | | |
| 58M | JV7191 | 58M/11 | 14:28 | 15:22 | Leung King Estate | | Kwai Fong Station | | | | | | |

Separate display for different directions
Display only trips

Departure time of previous trip prior to the trip involving unavailable staff/bus

Applicable to trip departed from : to :

After advancing the trip involving unavailable staff/bus

Departure time of next trip

Departure time of all trips afterwards

Execute

Apply formerly adjusted travelling time:

58M closed with 7 buses on weekdays (Thursday, 23 October)

58M closed with 7 buses on weekdays (Monday, 6 October)

Save Apply

Dispatcher incident dashboard

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (person) | Running number | |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|-------------------------|----------------|-------|
| Cheung Chi Leung | Bus broken | 6D | 02 | 65534 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Departure Management

Date

20-08-2014

Time

99:99 - 99:99

Route

Direction

58M

To Leung King

58M

To Kwai Fong

58P

To Leung King

58P

To Kwai Fong

59M

To Tuen Mun Ferry Pier

59M

To Tsuen Wan

Licence plate

+

HR7614

NA369S

KL1584

HP4367

HK5581

FB1632

Captain

+

77425

6628

65138

72161

1834

Working timetable (F12)

Message dissemination (F10)

Sort by: Vehicle / Bus Length / Time

| Route | Bus | Vehicle position | Scheduled departure | Scheduled arrival | Start point | Midway boarding station | End point | Captain carried in | Captain carried away | Contact OCC | Duties of captain carried in | Duties of captain carried away | Frequency | |
|-------|--------|-------------------|---------------------|-------------------|-------------|-------------------------|-------------------|--------------------|----------------------|-------------|------------------------------|--------------------------------|-----------|---------|
| 58M | KV6817 | 58M/ 03 | | 12:54 | 13:48 | Leung King Estate | Kwai Fong Station | | 60583 | 53679 | Morning | 58M/ 03/早 | 58M/ 03/夜 | Night |
| 58M | JV6725 | 58M/ 08 | | 13:03 | 13:57 | Leung King Estate | Kwai Fong Station | | 65489 | 65489 | Morning | 58M/ 08/早 | 58M/ 08/早 | Morning |
| 58M | KJ2052 | 58M/ 10 | | 13:11 | 14:05 | Leung King Estate | Kwai Fong Station | | 78464 | 1524 | Morning | 58M/ 10/早 | 58M/ 10/夜 | Night |
| 58M | JT1030 | 58M/ 15 | | 13:20 | 14:14 | Leung King Estate | Kwai Fong Station | | 64381 | 64381 | Morning | 58M/ 15/早 | 58M/ 15/早 | Morning |
| 58M | J57632 | 58M/ 06 | | 13:24 | 14:28 | Leung King Estate | Kwai Fong Station | | 72460 | ((Meal | Morning | 58M/ 06/早 | 58M/ 06/早 | Morning |
| 58M | JV5814 | 58M/ 12 | | 13:28 | 14:22 | Leung King Estate | Kwai Fong Station | | 62959 | 4801 | Morning | 58M/ 12/早 | 58M/ 12/早 | Morning |
| 58M | KU7538 | 58M/ 14 | | 13:37 | 14:31 | Leung King Estate | Kwai Fong Station | | 62918 | 62918 | Morning | 58M/ 14/早 | 58M/ 14/早 | Morning |
| 58M | KS 709 | 58M/ 96 | | 13:45 | 14:39 | Leung King Estate | Kwai Fong Station | | 72850 | 70819 | Morning | 58M/ 07/早 | 58M/ 02/夜 | Night |
| 58M | KU8269 | 58M/ 13 | | 13:54 | 14:48 | Leung King Estate | Kwai Fong Station | | 21855 | 1611 | Morning | 58M/ 96/早 | 58M/ 04/夜 | Night |
| 58M | JV7191 | 58M/ 11 | | 14:02 | 14:56 | Leung King Estate | Kwai Fong Station | | 60937 | 64089 | Morning | 58M/ 13/早 | 58M/ 06/夜 | Night |
| 58M | | Bus unavailable | | 14:19 | 15:13 | Leung King Estate | Kwai Fong Station | | | 67882 | Morning | 58M/ 14/早 | 58M/ 07/早 | Morning |
| 58M | | Leung King Estate | | 14:28 | 15:22 | Leung King Estate | Kwai Fong Station | | Staff unavailable | 460 | Morning | 58M/ 14/早 | 58M/ 07/早 | Morning |

| Route | Bus | Vehicle position | Scheduled departure | Scheduled arrival | Start point | Midway boarding station | End point | Captain carried in | Captain carried away | Contact OCC | Duties of captain carried in | Duties of captain carried away | Frequency | |
|-------|--------|------------------|---------------------|-------------------|-------------|-------------------------|-------------------|--------------------|----------------------|-------------|------------------------------|--------------------------------|-----------|---------|
| 58M | KV6817 | 58M/ 03 | | 13:00 | 13:48 | Kwai Fong Station | Leung King Estate | | 1946 | 1548 | Morning | 58M/ 03/早 | 58M/ 03/早 | Morning |
| 58M | KJ2052 | 58M/ 10 | | 13:10 | 14:05 | Kwai Fong Station | Leung King Estate | | 60583 | 65489 | Morning | 58M/ 10/早 | 58M/ 10/早 | Morning |
| 58M | JT1030 | 58M/ 15 | | 13:20 | 14:14 | Kwai Fong Station | Leung King Estate | | Staff unavailable | | Morning | 58M/ 15/早 | 58M/ 15/早 | Morning |
| 58M | KJ2052 | 58M/ 10 | | 13:30 | 14:24 | Kwai Fong Station | Leung King Estate | | 60019 | 53679 | Morning | 58M/ 10/早 | 58M/ 10/早 | Morning |
| 58M | JV6725 | 58M/ 08 | | 13:40 | 14:34 | Kwai Fong Station | Leung King Estate | | 71306 | 71306 | Morning | 58M/ 08/早 | 58M/ 08/早 | Morning |
| 58M | JV6725 | 58M/ 08 | | 13:50 | 14:44 | Kwai Fong Station | Leung King Estate | | 60757 | 60757 | Morning | 58M/ 08/早 | 58M/ 08/早 | Morning |
| 58M | KV6817 | 58M/ 03 | | 14:00 | 14:54 | Kwai Fong Station | Leung King Estate | | 71456 | 71456 | Morning | 58M/ 03/早 | 58M/ 03/早 | Morning |
| 58M | JV6725 | 58M/ 08 | | 14:10 | 15:04 | Kwai Fong Station | Leung King Estate | | 53679 | 53679 | Morning | 58M/ 08/早 | 58M/ 08/早 | Morning |
| 58M | KJ2052 | 58M/ 10 | | 14:20 | 15:14 | Kwai Fong Station | Leung King Estate | | 65489 | 65489 | Morning | 58M/ 10/早 | 58M/ 10/早 | Morning |
| 58M | JT1030 | 58M/ 15 | | 14:30 | 15:24 | Kwai Fong Station | Leung King Estate | | 854 | 1524 | Morning | 58M/ 15/早 | 58M/ 15/早 | Morning |
| 58M | JV6725 | 58M/ 08 | | 14:40 | 15:34 | Kwai Fong Station | Leung King Estate | | 64381 | 64381 | Night | 58M/ 15/早 | 58M/ 15/早 | Morning |

Dispatcher incident dashboard

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---------------------|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Bus broken | | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |

Save

Apply

Separate display for different directions

Display only trips

Departure time of previous trip prior to the trip involving unavailable staff/bus

Applicable to trip departed from : to :

After advancing the trip involving unavailable staff/bus

Departure time of next trip

Departure time of all trips afterwards

Execute

Apply formerly adjusted travelling time:
58M closed with 7 buses on weekdays (Thursday, 23 October)
58M closed with 7 buses on weekdays (Monday, 6 October)

Departure Management

ROM System Proposal
System Fucntions Section

7.2.2.9.5 Working Timetable – Regulation Mode in Bus View

Working timetable (F12)

Message dissemination (F10)

Sort by: Vehicle / Bus Length / Time

行車時間

Working timetable (F12)

Message dissemination (F10)

Sort by: Vehicle / Bus Length / Time

| | | | |
|---|---|---|---|
| 58M/07 欠車 | 58M/11 | 58M/13 KU7538 | 960/13 欠車 |
| 06:37 72460 | 06:32 71306 | 06:37 72460 | 06:54 72460 |
| (Depot) Tuen Mun (South) Depot => Kin Sang Estate | (Depot) Tuen Mun (South) Depot => Kin Sang Estate | (Depot) Tuen Mun (South) Depot => Kin Sang Estate | (Depot) Tuen Mun (South) Depot => Kin Sang Estate |
| 06:50 72460 | 06:42 71306 | 06:50 72460 | 07:07 57882 |
| Kin Sang Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Kin Sang Estate => Wan Chai Ferry Pier |
| 07:42 72460 | 07:44 71306 | 07:42 72460 | 08:26 57882 |
| e(Private) Kwai Fong Station => Po Tin | Kwai Fong Station => Leung King Estate | Kwai Fong Station => Leung King Estate | Wan Chai Ferry Pier => Kin Sang Estate |
| 08:20 72460 | 08:41 71306 | 08:20 72460 | 10:56 57882 |
| Po Tin => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Leung King Estate => Kwai Fong Station | Kin Sang Estate => Wan Chai Ferry Pier |
| 09:20 72460 | 09:46 71306 | 09:20 72460 | 12:30 57882 |
| (Depot) Kwai Fong Station => Tuen Mun (South) Depot | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | (Depot) Kwai Fong Station => Tuen Mun (South) Depot | Wan Chai Ferry Pier => Kin Sang Estate |

Separate display for different directions
Display only trips

Departure time of previous trip prior to the trip involving unavailable staff/bus

Applicable to trip departed from : to :
After advancing the trip involving unavailable staff/bus

☐ Departure time of next trip

Departure time of all trips afterwards

Execute

Apply formerly adjusted travelling time:
58M closed with 7 buses on weekdays (Thursday, 23 October)
58M closed with 7 buses on weekdays (Monday, 6 October)

Save

Apply

Dispatcher incident dashboard

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Bus broken | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Traffic accident | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|----|-------|--------|-------|-------|-------|-------|--|--|--|--|--|--|--|------|----|-------|------|----|-------|
| 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 05 | 85047 | LM2169 | 07:38 | 08:20 | | 31353 | | | | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Departure Management

ROM System Proposal
System Fucntions Section

7.2.2.9.6 Working Timetable – Regulation Mode in BCView

Working timetable (F12)

Message dissemination (F10)

Sort by: Vehicle / Bus Length / Time

| | | | | |
|---|--|--|---|---|
| 58M/07/Morning 72460 | 58M/11/Morning 71306 | 58M/12/Morning Staff unavailable | 960/13/Morning 67882 | 960/13/Night 45722 |
| 06:37 Bus unavailable (Depot) Tuen Mun (South) Depot => Kin Sang Estate | 06:32 JY7191 (Depot) Tuen Mun (South) Depot => Kin Sang Estate | 06:21 JY7538 (Depot) Tuen Mun (South) Depot => Kin Sang Estate | 06:54 Bus unavailable (Depot) Tuen Mun (South) Depot => Kin Sang Estate | 12:27 Bus unavailable (Depot) Tuen Mun (South) Depot => Kin Sang Estate |
| 06:50 Bus unavailable Kin Sang Estate => Kwai Fong Station | 06:42 JY7191 Leung King Estate => Kwai Fong Station | 06:21 JY7538 Leung King Estate => Kwai Fong Station | 07:07 Bus unavailable Kin Sang Estate => Wan Chai Ferry Pier | 17:31 Bus unavailable Kin Sang Estate => King's Road at Quarry Bay |
| 07:42 Bus unavailable e(Private) Kwai Fong Station => Po Tin | 07:44 JY7191 Kwai Fong Station => Leung King Estate | 07:25 JY7538 Kwai Fong Station => Leung King Estate | 08:26 Bus unavailable Wan Chai Ferry Pier => Kin Sang Estate | 18:45 Bus unavailable King's Road at Quarry Bay => Hung Shui Kiu |
| 08:20 Bus unavailable Po Tin => Kwai Fong Station | 08:41 JY7191 Leung King Estate => Kwai Fong Station | 08:17 JY7538 Leung King Estate => Kwai Fong Station | 10:56 (Meal) Bus unavailable Kin Sang Estate => Wan Chai Ferry Pier | 19:20 Bus unavailable (Private) Hung Shui Kiu => Kin Sang Estate |
| 09:20 Bus unavailable (Depot) Kwai Fong Station => Tuen Mun (South) Depot | 09:46 JY7191 (Depot) Kwai Fong Station => Tuen Mun (South) Depot | 09:27 JY7538 (Depot) Kwai Fong Station => Tuen Mun (South) Depot | 12:30 Bus unavailable Wan Chai Ferry Pier => Kin Sang Estate | 19:40 Bus unavailable Kin Sang Estate => Wan Chai Ferry Pier |
| 09:31 (Tea) Tuen Mun (South) Depot | 10:36 (Meal) Tuen Mun (South) Depot | 10:17 (Meal) Tuen Mun (South) Depot | 13:50 Bus unavailable (Private) Kin Sang Estate => Leung King Estate | 19:40 Bus unavailable Wan Chai Ferry Pier => Kin Sang Estate |



Separate display for different directions
Display only trips

Departure time of previous trip prior to the trip involving unavailable staff/bus

Applicable to trip departed from : to :
After advancing the trip involving unavailable staff/bus

☐ Departure time of next trip
Departure time of all trips afterwards

Apply formerly adjusted travelling time:
58M closed with 7 buses on weekdays (Thursday, 23 October)
58M closed with 7 buses on weekdays (Monday, 6 October)

Dispatcher incident dashboard

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Bus broken | 02 | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Departure Management

ROM System Proposal System Functions Section

7.2.2.9.7

Working Timetable – Resources Hunting (Resources re-allocation)

Date
20-08-2014

Time
99:99 - 99:99

Route
Direction

58M To Leung King
58M To Kwai Fong
58P To Leung King
58P To Kwai Fong
59M To Tuen Mun Ferry Pier
59M To Tsuen Wan

Licence plate
+
HR7614
NA8693
KL1584
HP4367
HK5581
FB1632

Captain
+
77425
6628
65138
72161
1834

Working timetable (F12)

Message dissemination (F10)

Sort by: Vehicle / Bus Length / Time

| Route | Bus | Vehicle duty | Scheduled departure | Actual departure | In advance Delayed | Scheduled arrival | Arrival at midway station Stop name | Expected remaining travelling time (minutes) | Start point | Midway boarding station | End point | Captain carried in | Captain carried away | Contact OCC | Duty of captain carried in | Duty of captain carried away |
|-------|-------|--------------|---------------------|------------------|--------------------|-------------------|-------------------------------------|--|------------------------|-------------------------|-----------|--------------------|----------------------|-------------|----------------------------|------------------------------|
| 58M | 57552 | 58M/06 | 13:25 | 13:28 | 0:02 | 14:22 | Leung King Estate | | Kwai Fong Station | | | | | | | |
| 58M | 57553 | 58M/06 | 13:30 | 13:30 | 0:00 | 14:24 | Kwai Fong Station | | Leung King Estate | | | | | Morning | 58M/06/車 | 58M/06/車 |
| 58M | 57554 | 58M/12 | 13:37 | 13:37 | 0:00 | 14:31 | Leung King Estate | | Kwai Fong Station | | | | | Morning | 58M/12/車 | 58M/12/車 |
| 58M | 57555 | 58M/12 | 13:40 | 13:40 | 0:00 | 14:34 | Kwai Fong Station | | Leung King Estate | | | | | Morning | 58M/12/車 | 58M/12/車 |
| 58M | 57556 | 58M/14 | 13:45 | 13:45 | 0:00 | 14:39 | Leung King Estate | | Kwai Fong Station | | | | | Morning | 58M/14/車 | 58M/14/車 |
| 58M | 57557 | 58M/14 | 13:50 | 13:50 | 0:00 | 14:43 | Kwai Fong Station | | Leung King Estate | | | | | Morning | 58M/14/車 | 58M/14/車 |
| 58M | 57558 | 58M/14 | 13:55 | 13:55 | 0:00 | 14:48 | Kwai Fong Station | | Leung King Estate | | | | | Morning | 58M/14/車 | 58M/14/車 |
| 58M | 57559 | 58M/04 | 13:54 | 13:54 | 0:00 | 14:54 | Leung King Estate | | Tuen Mun (South) Depot | | | | | Morning | 58M/04/車 | 58M/04/車 |
| 58M | 57560 | 58M/04 | 13:54 | 13:54 | 0:00 | 14:48 | Leung King Estate | | Kwai Fong Station | | | | | Morning | 58M/04/車 | 58M/04/車 |
| 58M | 57561 | 58M/04 | 14:02 | 14:02 | 0:00 | 14:56 | Kwai Fong Station | | Leung King Estate | | | | | Night | 58M/04/車 | 58M/04/車 |
| 58M | 57562 | 58M/511 | 14:04 | 14:04 | 0:00 | 14:24 | Leung King Estate | | Kwai Fong Station | | | | | Morning | 58M/511/車 | 58M/511/車 |
| 58M | 57563 | 58M/511 | 14:04 | 14:04 | 0:00 | 14:24 | Leung King Estate | | Tuen Mun (South) Depot | | | | | Morning | 58M/511/車 | 58M/511/車 |
| 58M | 57564 | 58M/511 | 14:04 | 14:04 | 0:00 | 14:24 | Kwai Fong Station | | Leung King Estate | | | | | Morning | 58M/511/車 | 58M/511/車 |
| 58M | 57565 | 58M/511 | 14:04 | 14:04 | 0:00 | 14:24 | Kwai Fong Station | | Leung King Estate | | | | | Night | 58M/511/車 | 58M/511/車 |
| 58M | 57566 | 58M/11 | 14:08 | 14:08 | 0:00 | 15:22 | Leung King Estate | | Kwai Fong Station | | | | | Morning | 58M/11/車 | 58M/11/車 |
| 58M | 57567 | 58M/11 | 14:13 | 14:13 | 0:00 | 15:25 | Kwai Fong Station | | Leung King Estate | | | | | Morning | 58M/11/車 | 58M/11/車 |
| 58M | 57568 | 58M/511 | 14:14 | 14:14 | 0:00 | 14:42 | Tuen Mun (South) Depot | | Leung King Estate | | | | | Morning | 58M/511/車 | 58M/511/車 |
| 58M | 57569 | 58M/07 | 14:14 | 14:14 | 0:00 | 14:54 | Leung King Estate | | Tuen Mun (South) Depot | | | | | Morning | 58M/07/車 | 58M/07/車 |
| 58M | 57570 | 58M/09 | 14:16 | 14:16 | 0:00 | 15:10 | Leung King Estate | | Kwai Fong Station | | | | | Night | 58M/09/車 | 58M/09/車 |
| 58M | 57571 | 58M/511 | 14:14 | 14:14 | 0:00 | 14:58 | Kwai Fong Station | | Leung King Estate | | | | | Night | 58M/511/車 | 58M/511/車 |
| 58M | 57572 | 58M/12 | 14:15 | 14:15 | 0:00 | 15:00 | Leung King Estate | | Kwai Fong Station | | | | | Morning | 58M/12/車 | 58M/12/車 |
| 58M | 57573 | 58M/02 | 14:15 | 14:15 | 0:00 | 15:46 | Kwai Fong Station | | Leung King Estate | | | | | Morning | 58M/02/車 | 58M/02/車 |
| 58M | 57574 | 58M/04 | 14:16 | 14:16 | 0:00 | 15:14 | Leung King Estate | | Kwai Fong Station | | | | | Night | 58M/04/車 | 58M/04/車 |
| 58M | 57575 | 58M/503 | 14:18 | 14:18 | 0:00 | 15:08 | Leung King Estate | | Tuen Mun (South) Depot | | | | | Night | 58M/503/車 | 58M/503/車 |
| 58M | 57576 | 58M/503 | 14:18 | 14:18 | 0:00 | 15:08 | Leung King Estate | | Kwai Fong Station | | | | | Night | 58M/503/車 | 58M/503/車 |
| 58M | 57577 | 58M/15 | 15:04 | 15:04 | 0:00 | 15:14 | Leung King Estate | | Kwai Fong Station | | | | | Morning | 58M/15/車 | 58M/15/車 |
| 58M | 57578 | 58M/15 | 15:04 | 15:04 | 0:00 | 15:24 | Leung King Estate | | Leung King Estate | | | | | Night | 58M/15/車 | 58M/15/車 |
| 58M | 57579 | 58M/15 | 15:04 | 15:04 | 0:00 | 15:24 | Tuen Mun (South) Depot | | Leung King Estate | | | | | Morning | 58M/15/車 | 58M/15/車 |
| 58M | 57580 | 58M/08 | 15:16 | 15:16 | 0:00 | 16:10 | Kwai Fong Station | | Leung King Estate | | | | | Night | 58M/08/車 | 58M/08/車 |
| 58M | 57581 | 58M/13 | 15:16 | 15:16 | 0:00 | 16:10 | Leung King Estate | | Kwai Fong Station | | | | | Night | 58M/13/車 | 58M/13/車 |
| 58M | 57582 | 58M/13 | 15:16 | 15:16 | 0:00 | 16:10 | Leung King Estate | | Tuen Mun (South) Depot | | | | | Morning | 58M/13/車 | 58M/13/車 |
| 58M | 57583 | 58M/13 | 15:16 | 15:16 | 0:00 | 16:10 | Leung King Estate | | Kwai Fong Station | | | | | Morning | 58M/13/車 | 58M/13/車 |

Departure rate of the route:

Vehicle information:

Captain Information:

Captain: 64381 XXX

(monthly salary)

Duty: 58M/15/morning

Meal time: 99:99 –

99:99

Data of accidents:

Overtime travelling:

Position: 58M/15

Scheduled departure

time: 10:13

Actual arrival time:

10:16

Reasons for being late:

Route details:

Statistical information:

Dispatcher incident dashboard

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|------------------------|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Bus broken | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Departure Management

ROM System Proposal
System Functions Section

7.2.2.9.8 Resources Available for resources re-allocation

| | | | | | | | | | |
|---|--|------------------|------------------------------|-------------------------------------|----------------------------------|----------------|---|--------------|---------------|
| Running number | 74x17 | Scheduled bus: | HK9876 (fault) | Scheduled captain: | 56789 (Chan King Man) | Departure time | 15:28 | Start point: | Tai Po Centre |
| Re-allocated time slot | | trips afterwards | | Re-allocation scope: | both the vehicle and the captain | | | | |
| Terminus: | Tai Po Centre | Fu Shin | Fu HengTai Po Market Station | Tai Po Market Station | | More... | | | |
| Travelling time from depot: | <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E | | | Travelling time for private purpose | | | <input type="checkbox"/> Cross-depots <input type="checkbox"/> Cross control centres <input type="checkbox"/> Cross control centres <input type="checkbox"/> Display transfer / pick up <input type="checkbox"/> Stop at depot midway | | |
| Minimum time gap with departure time of next trip | | | | Missing bus for the route | | | Display only the same route / all routes | | |
| | | | | Passenger ratio | | | | | |
| No violation of work guidelines | <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E | | | Complaint ratio | | | | | |

| Location | Licence plate | Depot | Running number | Captain number and duties | Contact number | Working arrangements | Actual/estimated arrival time | Schedule d departur | Transfer/ pick up | Re-allocation of captain violating the work guidelines | | | | | Missing rate for the original route | Passenge r ratio | Complai nt ratio | Remark |
|------------------------|---------------|-------|----------------|---------------------------|----------------|------------------------------|-------------------------------|---------------------|-------------------|--|---|---|---|---|-------------------------------------|------------------|------------------|---|
| | | | | | | | | | | A | B | C | D | E | | | | |
| Tai Po Centre | HK1234 | SWH | | — | | Spare | | | | | | | | | | | | 74X withdrawn from service due to night parking violation |
| Tai Po Market | HK2345 | SWH | 74X-S10 | 1234 Morning 74X-S10-1 | | 74X returned to depot midway | | 17:54 | | | | | | | | | | Departed depot in second half at 17:10 and violated night parking |
| Tai Po Market | HK3456 | SWH | | 2345 Morning 65432 | | Spare | | | Transfer | | | | | | | | | 73X-03 withdrawn from service due to night parking violation |
| Tai Po Centre | HK4567 | SWH | 72X-03 | 2345 Morning 72X-01 | | 72X | 15:20 | 15:28 | | | | | | | 3.70% | 0.95 | 1.3 | Night parking violation |
| Tai Po Centre (Midway) | HK5678 | SWH | 74X-06 | 3456 Morning 74X-S02 | | 74X | Expected 15:28 | 15:38 | | | | | | | | | | Night parking violation |
| Fu Heng | HK6789 | SWH | 71B-05 | 67890 Morning 71B-03 | | 71B | 15:21 | 15:29 | | | | | | | 1.00% | 1.4 | 1.85 | Night parking violation |
| Tai Po Market Station | | SWH | | 65432 Night 65432100 | | Standby at stop | | | | | | | | | | | | Night parking violation |
| Fu Shin | HK7890 | SWH | 73X-S10 | 76543 Night 73X-S10-1 | 6610142 | 73X parked midway | | 16:48 | Pick up | | | | | | 3.30% | 1.13 | 0.82 | Night parking violation |

Double click to select swapping Bus and/or BC

[Blank Page]

8. Control Center Operation

Illustration by Examples**8.1 Illustration by examples**

Control center operation under ROM is illustrated by the following examples:

| Example | Scenario | Illustrating Route |
|----------------|--|---------------------------|
| 1 | Bus breakdown + resource hunting | 6D |
| 2 | Crew Shortage + automatic departure regulation | 98C |
| 3 | Delayed of Arrival + departure regulation | 58M |


CONFIDENTIAL

Illustration by Examples – Bus Breakdown + Redeployment

ROM System Proposal Control Center Operation

8.1.1 – Handling bus breakdown + redeployment (route 6D)

- ➔ Dispatcher receives a call from bus captain 62564 that bus HY 754 broke down at 12:45.
- ➔ He presses the “phone” icon at the top right corner and a form appears for filling the details of the breakdown.

調度員: 事件狀況: 

系統時間: 2014-08-01 12:29:12

| 調度員 | 事件 | 車輛 | 車長 | 參考編號 | 時間 | 事件類別 | 路線 | 字軌 | 車輛 | 車長 | 資料補充 |
|-----|-----|----|----|------|----|------|----|----|----|----|------|
| 張子良 | 延遲抵 | | | | | | | | | | |
| 張子良 | 壞車 | | | | | | | | | | |
| 張子良 | 交通意 | | | | | | | | | | |
| 張子良 | 行車過 | | | | | | | | | | |
| 張子良 | 失物處 | | | | | | | | | | |
| 張子良 | 偏離行 | | | | | | | | | | |

已記錄事故:

| 參考編號 | 時間 | 事件類別 | 路線 | 字軌 | 車輛 | 車長 | 資料補充 |
|------|----|------|----|----|----|----|--------------------|
| | | | | | | | 編輯 |
| | | | | | | | 編輯 |
| | | | | | | | 編輯 |

[新增]事件類別: (壞車/交通意外/失物處理/其他事項)

車牌 時間 地點 ☐ 站頭

路線 字軌 ☐ 途中

時間 往維修 車長 維修站 / 車廠

| 次(車) | 受 | 書班 | 次(人) |
|------|---|----|-------|
| 開出 | | 字軌 | 開出 |
| | | 02 | 15:10 |
| C39A | | 10 | 08:35 |
| C58M | | 15 | 10:13 |
| C43A | | 08 | 07:55 |
| -- | | -- | -- |

| 遺失班率 | |
|--------------|--------------|
| 1500-2000 | 2000-0200 |
| 2/59 (3.51%) | 2/59 (3.51%) |
| 1/51 (1.96%) | 1/51 (1.96%) |
| 0/39 (0%) | 0/39 (0%) |
| - | - |
| 2/47 (4.26%) | 2/47 (4.26%) |
| 1/8 (0%) | 1/8 (0%) |
| 1/29 (3.45%) | 1/29 (3.45%) |
| 0/36 (0%) | 0/36 (0%) |
| 3/71 (4.23%) | 3/71 (4.23%) |
| 2/24 (8.33%) | 2/24 (8.33%) |

| 路線 | 往 | 2/3/2 | -5 | 02 | +7 | S02 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
|-----|-----|--------|-----|-----|----|-----|-------|--------------|--------------|--------------|--------------|
| 2A | 美孚 | 1/4/2 | -5 | 02 | +7 | S02 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| 6 | 美孚 | 5/6/2 | -12 | S04 | +4 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| 6D | 荔枝角 | 3/10/2 | -12 | S04 | +4 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| 6X | 美孚 | 4/2/2 | -6 | 07 | +5 | 03 | 1.84% | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) |
| 28 | 美孚 | 2/7/0 | -6 | 07 | +5 | 03 | 1.84% | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) |
| 38A | 美孚 | | | | | | | | | | |
| 72 | 美孚 | | | | | | | | | | |
| 86 | 美孚 | | | | | | | | | | |
| 6C | 美孚 | | | | | | | | | | |
| 30 | 美孚 | | | | | | | | | | |

Illustration by Examples – Bus Breakdown + Redeployment

ROM System Proposal Control Center Operation


- ➔ A new incident of type “bus breakdown” will be created in both incident board of OCC TV and dispatcher monitoring board

| 車務控制中心：荔枝角 | | | | | 系統時間： 2014-08-01 09:34:12 | | | |
|------------|----------------|------|--------|-------|---------------------------|-----|----------|-------|
| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 輸入者 | 輸入時間 | 參考編號 |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 張子良 | 12:45:00 | 35216 |
| 李超 | 欠人 | C42A | 02 | 721 | GZ4853 | TOM | 08:45:20 | 31523 |
| 王大同 | 欠車 | C2A | 加入壞車事件 | 558 | KR4330 | TOM | 08:45:20 | 31513 |
| 何小明 | 尚未抵達 影響往後出車 | C40 | 03 | 65318 | KW3187 | 王大同 | 09:18:05 | 31608 |
| 張子良 | 壞車 | C108 | 02 | 73493 | MM2038 | 李超 | 08:12:16 | 31468 |
| 李超 | 劈車 | C42A | 07 | 77251 | JK1583 | 何小明 | 09:12:06 | 31594 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | OCM | 07:45:20 | 31353 |
| 王大同 | 失物處理 - 留後 | C43A | 08 | 70524 | MK3518 | 王大同 | 07:50:10 | 31381 |
| 王大同 | 預計延遲到達 | C8A | 01 | 1155 | ET6184 | ROM | 09:32:47 | 31668 |
| 李超 | 偏離行車路線 | C35A | 01 | 73914 | ND6181 | ROM | 09:28:20 | 31618 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | ROM | 09:33:51 | 31675 |
| | : | | | | | : | | |
| | : | | | | | : | | |
| | : | | | | | : | | |

Illustration by Examples – Bus Breakdown + Redeployment

ROM System Proposal Control Center Operation

➔ A new incident of type “bus breakdown” being created to the dispatcher’s monitoring board

調度員: 張子良
 事件狀況: 處理中 / 未確認 / 處理完畢 / 所有


加入壞車事件
系統時間: 2014-08-01 12:50:12

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |
| 張子良 | 偏離行車路線 | C35A | 04 | 73914 | ND6181 | -- | -- | -- | 31618 | | | | | -- | -- | -- | -- | -- | -- |

| 路線 | 往 | 遲 | 早 | -0/+ | 最長延誤 | | 最長提早 | | 本月累積失班率 | 當天累積失班率 | | | |
|-----|-------|---|---|--------|------|-----|------|-----|---------|--------------|--------------|--------------|--------------|
| | | | | | 分鐘 | 字軌 | 分鐘 | 字軌 | | 0500-1000 | 1000-1500 | 1500-2000 | 2000-0200 |
| 2A | 美孚 | | | 0/3/2 | -4 | 06 | +9 | L05 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| | 樂華 | | | 2/3/2 | -4 | 06 | +9 | L05 | | | | | |
| 6 | 美孚 | | | 2/8/0 | -9 | 03 | +5 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| | 荔枝角 | | | 3/6/2 | -9 | 03 | +5 | 07 | | | | | |
| 6D | 美孚 | | | 3/3/2 | -8 | 09 | +6 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| | 牛頭角 | | | 1/5/2 | -8 | 09 | +6 | 02 | | | | | |
| 6X | 中間道 | | | 0/4/1 | - | | +3 | 03 | 0 | 0/8 (0%) | - | - | - |
| 28 | 麼地道 | | | 1/6/2 | -4 | 05 | +6 | 01 | 1.34% | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) |
| | 麼地道 | | | 2/6/0 | -4 | 05 | +6 | 01 | | | | | |
| 38A | 美孚 | | | 0/4/0 | - | | - | | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| | 海濱花園 | | | 0/4/0 | - | | - | | | | | | |
| 72 | 長沙灣 | | | 3/5/1 | -4 | 05 | +11 | 09 | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| | 太和 | | | 1/3/4 | -4 | 05 | +11 | 09 | | | | | |
| 86 | 美孚 | | | 2/3/2 | -5 | 02 | +7 | S02 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| | 黃泥頭 | | | 1/4/2 | -5 | 02 | +7 | S02 | | | | | |
| 6C | 美孚 | | | 5/6/2 | -12 | S04 | +4 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| | 九龍城碼頭 | | | 3/10/2 | -12 | S04 | +4 | 06 | | | | | |
| 30 | 長沙灣 | | | 4/2/2 | -6 | 07 | +5 | 03 | 1.84% | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) |
| | 荃威花園 | | | 2/7/0 | -6 | 07 | +5 | 03 | | | | | |

Illustration by Examples – Bus Breakdown + Redeployment

ROM System Proposal Control Center Operation

- ➔ On the working time table, a screw driver icon will appear next to the bus number of the bus which has broken down.
- ➔ A word “欠車” will be displayed in departures that involve the bus.

日期: 20-08-2014

時間: 99:99 - 99:99

路線: 6D 往美孚

6D 往牛頭角

58P 往良景

58P 往葵芳

59M 往屯碼

59M 往荃灣

車牌: HY 754

NA8693

KL1584

HP4367

HK5581

PB1632

車長: 77425

6628

65138

72161

1834

調整班次 (F12)

排序: 車輛 / 車長 / 時間

| 路線 | 車輛 | 車輛崗位 | 截來車長 | 車長崗位 | 截走車長 | 車長崗位 | 同行 | 編定 | 實際 | 提早 | 編定 | 已抵達中途站 | 預計尚餘 | 站名 | 時間 | 車程(分鐘) | 已到達 | 已拍咗 | 起點 | 中途起點站 | 終點 | 聯發occ | 班次 |
|----|--------|-------|-------|----------|-------|----------|----|-------|-------|-------|-------|--------|------|-----|----|--------|-----|-----|----|-------|----|-------|----|
| 5D | JA6071 | 6D/04 | 78620 | 6D/04/早 | 68752 | 6D/08/早 | | 11:25 | 11:25 | 00:00 | 12:24 | | 34 | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | HY 583 | 6D/01 | 62121 | 6D/L01/早 | 62121 | 6D/L01/早 | | 11:30 | 11:30 | 00:00 | 12:30 | | 40 | 牛頭角 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | JA5239 | 6D/06 | 72855 | 6D/01/早 | 72855 | 6D/01/早 | | 11:40 | 11:40 | 00:00 | 12:39 | | 50 | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | HY 754 | 6D/02 | 62564 | 6D/06/早 | 62564 | 6D/06/早 | | 11:45 | 11:45 | 00:00 | 12:45 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | HW7486 | 6D/07 | NULL | 6D/L03/早 | 63241 | 6D/02/早 | | 11:55 | 11:55 | 00:00 | 12:54 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | HR1554 | 6D/03 | 64079 | 6D/07/早 | 64079 | 6D/07/早 | | 12:00 | 12:00 | 00:00 | 13:00 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | HR 586 | 6D/08 | 63763 | 6D/05/早 | 64930 | 6D/03/早 | | 12:10 | 12:10 | 00:00 | 13:09 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | HT3592 | 6D/05 | 61961 | 6D/L02/早 | 61961 | 6D/L02/早 | | 12:15 | 12:15 | 00:00 | 13:15 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | HR 881 | 6D/09 | 63555 | 6D/09/早 | 78620 | 6D/04/早 | | 12:25 | 12:25 | 00:00 | 13:24 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | JA6071 | 6D/04 | 68752 | 6D/08/早 | 68752 | 6D/08/早 | | 12:30 | 12:30 | 00:00 | 13:30 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | HY 583 | 6D/01 | 62121 | 6D/L01/早 | 63763 | 6D/05/早 | | 12:40 | 12:40 | 00:00 | 13:39 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | JA5239 | 6D/06 | 72855 | 6D/01/早 | 72855 | 6D/01/早 | | 12:45 | 12:45 | 00:00 | 13:45 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | 欠車 | 6D/02 | 62564 | 6D/06/早 | 62564 | 6D/06/早 | | 13:00 | | | 13:54 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | - |
| 5D | HW7486 | 6D/07 | 63241 | 6D/02/早 | 63241 | 6D/02/早 | | 13:00 | | | 14:00 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | HR1554 | 6D/03 | 64079 | 6D/07/早 | 64079 | 6D/07/早 | | 13:10 | | | 14:09 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 30 |
| 5D | HR 586 | 6D/08 | 64930 | 6D/03/早 | 64930 | 6D/03/早 | | 13:15 | | | 14:15 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | HT3592 | 6D/05 | 61961 | 6D/L02/早 | 63555 | 6D/09/早 | | 13:25 | | | 14:24 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | HR 881 | 6D/09 | 78620 | 6D/04/早 | 78620 | 6D/04/早 | | 13:30 | | | 14:30 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | JA6071 | 6D/04 | 68752 | 6D/08/早 | 62121 | 6D/L01/早 | | 13:40 | | | 14:39 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | HY 583 | 6D/01 | 63763 | 6D/05/早 | 63763 | 6D/05/早 | | 13:45 | | | 14:45 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | JA5239 | 6D/06 | 72855 | 6D/01/早 | 欠車 | 6D/L03/早 | | 13:55 | | | 14:54 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | 欠車 | 6D/02 | 62564 | 6D/06/早 | 62564 | 6D/06/早 | | 14:00 | | | 15:00 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | - |
| 5D | HW7486 | 6D/07 | 63241 | 6D/02/早 | 65153 | 6D/L21/夜 | | 14:10 | | | 15:09 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | HR1554 | 6D/03 | 64079 | 6D/07/早 | 64079 | 6D/07/早 | | 14:15 | | | 15:15 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 30 |
| 5D | HR 586 | 6D/08 | 64930 | 6D/03/早 | 61961 | 6D/L02/早 | | 14:25 | | | 15:24 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | HT3592 | 6D/05 | 63555 | 6D/09/早 | 63555 | 6D/09/早 | | 14:30 | | | 15:30 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | HR 881 | 6D/09 | 78620 | 6D/04/早 | 64313 | 6D/05/夜 | | 14:40 | | | 15:39 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | JA6071 | 6D/04 | 62121 | 6D/L01/早 | 62121 | 6D/L01/早 | | 14:45 | | | 15:45 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | HY 583 | 6D/01 | 63763 | 6D/05/早 | 63914 | 6D/09/夜 | | 14:55 | | | 15:54 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | 15 |
| 5D | JA5239 | 6D/06 | 欠車 | 6D/L03/早 | 欠車 | 6D/L03/早 | | 15:00 | | | 16:00 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |
| 5D | 欠車 | 6D/02 | 62564 | 6D/06/早 | 70538 | 6D/06/夜 | | 15:10 | | | 16:09 | | | 美孚 | | | | | 美孚 | 牛頭角 | | | - |
| 5D | HW7486 | 6D/07 | 65153 | 6D/L21/夜 | 65153 | 6D/L21/夜 | | 15:15 | | | 16:15 | | | 牛頭角 | | | | | 美孚 | 美孚 | | | 15 |

→ 路線出車率:

→ 車輛資料:

↓ 車長資料:

車長: 62564 XXX (月薪)

崗位: 6D/06/早

用膳時間: 99:99 – 99:99

↓ 事件資料:

壞車:

崗位: 6D/02

編定開出時間: 11:45

實際到達時間: 12:45

遲到原因:

→ 統計資料:

調度員

張子良

張子良

張子良

張子良

張子良

張子良

事件類別

壞車

延遲抵達沒有原因

交通意外

行車過時

失物處理 - 留後

偏離行車路線

路線

6D

C46

C39A

C58M

C43A

C35A

字軌

02

05

05

15

08

04

車長編號

62564

65325

85047

64381

70524

73914

車輛編號

HY754

KL6385

LM2168

HS 781

MK5518

ND6181

開出時間

11:45

08:25

07:38

09:10

07:00

--

預計到達

12:45

09:20

08:20

10:10

07:48

--

實際到達

09:28

10:16

07:48

--

參考編號

35216

31675

31353

34218

31381

31618

行車概況

🚗

🚗

🚗

🚗

🚗

🚗

行車時間表

📅

📅

📅

📅

📅

📅

折線圖

📊

📊

📊

📊

📊

📊

地圖

📍

📍

📍

📍

📍

📍

受影路線

6D

--

C39A

C58M

C43A

--

響班字軌

02

--

05

15

08

--

次(車)開出

15:10

--

08:28

10:13

07:55

--

受影路線

6D

--

C39A

C59M

C43A

--

響班字軌

02

--

10

06

08

--

次(人)開出

15:10

--

08:35

10:13

07:55

--

Illustration by Examples – Bus Breakdown + Redeployment

ROM System Proposal Control Center Operation

→ Select the trip with missing bus and select “resource hunting”

日期:
20-08-2014

時間:
99:99 - 99:99

路線:
6D 往美孚
6D 往牛頭角
58P 往良景
58P 往葵芳
59M 往屯碼頭
59M 往荃葵

車牌:
HY 754
NA8693
KL1584
HP4367
HK5581
PB1632

車長:
77425
6628
65138
72161
1834

調整班次 (F12)

排序: 車輛 / 車長 / 時間

| 路線 | 車輛 | 車輛編號 | 車長編號 | 車長姓名 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|----|--------|-------|-------|---------|-------|---------|-------|-------|-------|-------|-----|----|------|------|--------|------|------|--------|
| 5D | JA6071 | 6D/04 | 78620 | 6D/04/早 | 68752 | 6D/08/早 | 11:25 | 11:25 | 00:00 | 12:24 | | | | | | | | |
| 5D | HY 583 | 6D/01 | 62121 | 6D/01/早 | 62121 | 6D/01/早 | 11:30 | 11:30 | 00:00 | 12:30 | | | | | | | | |
| 5D | JA5239 | 6D/06 | 72855 | 6D/01/早 | 72855 | 6D/01/早 | 11:40 | 11:40 | 00:00 | 12:39 | | | | | | | | |
| 5D | HY 754 | 6D/02 | 62564 | 6D/06/早 | 62564 | 6D/06/早 | 11:45 | 11:45 | 00:00 | 12:45 | | | | | | | | |
| 5D | HW7486 | 6D/07 | 63241 | 6D/03/早 | 63241 | 6D/02/早 | 11:55 | 11:55 | 00:00 | 12:54 | | | | | | | | |
| 5D | HR1554 | 6D/03 | 64079 | 6D/07/早 | 64079 | 6D/07/早 | 12:00 | 12:00 | 00:00 | 13:00 | | | | | | | | |
| 5D | HR 586 | 6D/08 | 63763 | 6D/05/早 | 64930 | 6D/03/早 | 12:10 | 12:10 | 00:00 | 13:09 | | | | | | | | |
| 5D | HT3592 | 6D/05 | 61961 | 6D/02/早 | 61961 | 6D/02/早 | 12:15 | 12:15 | 00:00 | 13:15 | | | | | | | | |
| 5D | HR 881 | 6D/09 | 63555 | 6D/09/早 | 78620 | 6D/04/早 | 12:25 | 12:25 | 00:00 | 13:24 | | | | | | | | |
| 5D | JA6071 | 6D/04 | 68752 | 6D/08/早 | 68752 | 6D/08/早 | 12:30 | 12:30 | 00:00 | | | | | | | | | |
| 5D | HY 583 | 6D/01 | 62121 | 6D/01/早 | 63763 | 6D/05/早 | 12:40 | 12:40 | 00:00 | 13:39 | | | | | | | | |
| 5D | JA5239 | 6D/06 | 72855 | 6D/01/早 | 72855 | 6D/01/早 | 12:45 | 12:45 | 00:00 | 13:45 | | | | | | | | |
| 5D | 欠車 | 6D/02 | 62564 | 6D/06/早 | 62564 | 6D/06/早 | 13:00 | 13:00 | 00:00 | 13:54 | | | | | | | | |
| 5D | HW7486 | 6D/07 | 63241 | 6D/02/早 | 63241 | 6D/02/早 | 13:00 | 13:00 | 00:00 | 14:00 | | | | | | | | |
| 5D | HR1554 | 6D/03 | 64079 | 6D/07/早 | 64079 | 6D/07/早 | 13:10 | 13:10 | 00:00 | 14:09 | | | | | | | | |
| 5D | HR 586 | 6D/08 | 64930 | 6D/03/早 | 64930 | 6D/03/早 | 13:15 | 13:15 | 00:00 | 14:15 | | | | | | | | |
| 5D | HT3592 | 6D/05 | 61961 | 6D/02/早 | 63555 | 6D/09/早 | 13:25 | 13:25 | 00:00 | 14:24 | | | | | | | | |
| 5D | HR 881 | 6D/09 | 78620 | 6D/04/早 | 78620 | 6D/04/早 | 13:30 | 13:30 | 00:00 | 14:30 | | | | | | | | |
| 5D | JA6071 | 6D/04 | 68752 | 6D/08/早 | 62121 | 6D/01/早 | 13:40 | 13:40 | 00:00 | 14:39 | | | | | | | | |
| 5D | HY 583 | 6D/01 | 63763 | 6D/05/早 | 63763 | 6D/05/早 | 13:45 | 13:45 | 00:00 | 14:45 | | | | | | | | |
| 5D | JA5239 | 6D/06 | 72855 | 6D/01/早 | 欠人 | 6D/03/早 | 13:55 | 13:55 | 00:00 | 14:54 | | | | | | | | |
| 5D | 欠車 | 6D/02 | 62564 | 6D/06/早 | 62564 | 6D/06/早 | 14:00 | 14:00 | 00:00 | 15:00 | | | | | | | | |
| 5D | HW7486 | 6D/07 | 63241 | 6D/02/早 | 65153 | 6D/02/早 | 14:10 | 14:10 | 00:00 | 15:09 | | | | | | | | |
| 5D | HR1554 | 6D/03 | 64079 | 6D/07/早 | 64079 | 6D/07/早 | 14:15 | 14:15 | 00:00 | 15:15 | | | | | | | | |
| 5D | HR 586 | 6D/08 | 64930 | 6D/03/早 | 61961 | 6D/02/早 | 14:25 | 14:25 | 00:00 | 15:24 | | | | | | | | |
| 5D | HT3592 | 6D/05 | 63555 | 6D/09/早 | 63555 | 6D/09/早 | 14:30 | 14:30 | 00:00 | 15:30 | | | | | | | | |
| 5D | HR 881 | 6D/09 | 78620 | 6D/04/早 | 64313 | 6D/05/早 | 14:40 | 14:40 | 00:00 | 15:39 | | | | | | | | |
| 5D | JA6071 | 6D/04 | 62121 | 6D/01/早 | 62121 | 6D/01/早 | 14:45 | 14:45 | 00:00 | 15:45 | | | | | | | | |
| 5D | HY 583 | 6D/01 | 63763 | 6D/05/早 | 63914 | 6D/09/早 | 14:55 | 14:55 | 00:00 | 15:54 | | | | | | | | |
| 5D | JA5239 | 6D/06 | 欠人 | 6D/03/早 | 欠人 | 6D/03/早 | 15:00 | 15:00 | 00:00 | 16:00 | | | | | | | | |
| 5D | 欠車 | 6D/02 | 62564 | 6D/06/早 | 70538 | 6D/06/早 | 15:10 | 15:10 | 00:00 | 16:09 | | | | | | | | |
| 5D | HW7486 | 6D/07 | 65153 | 6D/02/早 | 65153 | 6D/02/早 | 15:15 | 15:15 | 00:00 | 16:15 | | | | | | | | |

路線出車率:

車輛資料:

車長資料:
車長: 62564 XXX (月薪)
崗位: 6D/06/早
用膳時間: 99:99 – 99:99

事件資料:
壞車:
崗位: 6D/02
編定開出時間: 11:45
實際到達時間: 12:45
遲到原因:

統計資料:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |
| 張子良 | 偏離行車路線 | C35A | 04 | 73914 | ND6181 | -- | -- | -- | 31618 | | | | | -- | -- | -- | -- | -- | -- |

Illustration by Examples – Bus Breakdown + Redeployment

ROM System Proposal Control Center Operation

➔ Select the bus to be re-allocated

字軌: 原編車輛: 原編車長: 開車時間: 起點:

抽調時段: 往後 班 抽調範圍: ↓

總站:

廠來行車時間: 私牌行車時間:

與下一班出車時間相距最少: 路線失事

不能違反工作指引: 載客比例 投訴比例

☐ 跨廠 ☐ 跨控制中心 ☐ 顯示調走/接車 ☐ 中段泊廠 ☐ 中段泊站

↓

| 地點 | 車牌 | 車廠 | 字軌 | 車長編號及崗位 | 聯絡電話 | 工作安排 | 實際/預計到站時間 | 編定開車時間 | 調走/接車 | 抽調車長違反工作指引 | | | | | 原路線失車率 0 | 載客比例 | 投訴比例 | 備注 |
|----|--------|-----|-------|----------------|------|---------|-----------|--------|-------|------------|---|---|---|---|-------------|------|------|----|
| | | | | | | | | | | A | B | C | D | E | | | | |
| 美孚 | BC2678 | LCK | | — | | 士啤 | | | | | | | | | | | | |
| 美孚 | HK2345 | LCK | 86-04 | 1234 86-04早 | | 26 中段回廠 | | 14:12 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Illustration by Examples – Bus Breakdown + Redeployment

ROM System Proposal Control Center Operation

日期:
20-08-2014

時間:
99:99 - 99:99

路線: 6D
方向: 往美孚
往牛頭角
58P 往良景
58P 往葵芳
59M 往屯碼頭
59M 往荃鐵

車牌:
BC2678
NA8693
KL1584
HP4367
HK5581
PB1632

車長:
77425
6628
65138
72161
1834

調整班次 (F12)

排序: 車輛 / 車長 / 時間

| 路線 | 車輛 | 車輛崗位 | 載來車長 | 載來車長崗位 | 載走車長 | 載走車長崗位 | 同行車長 | 編定開車 | 實際開車 | 提早 | 編定到達 | 已抵達中途站 | 預計尚餘 | 站名 | 時間 | 車程(分鐘) | 已到達 | 已拍站 | 起點 | 中途起點站 | 終點 | 聯駁occ | 班次 |
|----|--------|-------|-------|----------|-------|----------|------|-------|-------|-------|-------|--------|------|-----|----|--------|-----|-----|-----|-------|----|-------|----|
| 5D | JA6071 | 6D/04 | 78620 | 6D/04/早 | 68752 | 6D/08/早 | | 11:25 | 11:25 | 00:00 | 12:24 | | 34 | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | HY 583 | 6D/01 | 62121 | 6D/L01/早 | 62121 | 6D/L01/早 | | 11:30 | 11:30 | 00:00 | 12:30 | | 40 | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | JA5239 | 6D/06 | 72855 | 6D/01/早 | 72855 | 6D/01/早 | | 11:40 | 11:40 | 00:00 | 12:39 | | 50 | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | HY 754 | 6D/02 | 62564 | 6D/06/早 | 62564 | 6D/06/早 | | 11:45 | 11:45 | 00:00 | 12:45 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | HW7486 | 6D/07 | NULL | 6D/L03/早 | 63241 | 6D/02/早 | | 11:55 | 11:55 | 00:00 | 12:54 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | HR1554 | 6D/03 | 64079 | 6D/07/早 | 64079 | 6D/07/早 | | 12:00 | 12:00 | 00:00 | 13:00 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | HR 586 | 6D/08 | 63763 | 6D/05/早 | 64930 | 6D/03/早 | | 12:10 | 12:10 | 00:00 | 13:09 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | HT3592 | 6D/05 | 61961 | 6D/L02/早 | 61961 | 6D/L02/早 | | 12:15 | 12:15 | 00:00 | 13:15 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | HR 881 | 6D/09 | 63555 | 6D/09/早 | 78620 | 6D/04/早 | | 12:25 | 12:25 | 00:00 | 13:24 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | JA6071 | 6D/04 | 68752 | 6D/08/早 | 68752 | 6D/08/早 | | 12:30 | 12:30 | 00:00 | 13:30 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | HY 583 | 6D/01 | 62121 | 6D/L01/早 | 63763 | 6D/05/早 | | 12:40 | 12:40 | 00:00 | 13:39 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | JA5239 | 6D/06 | | | 72855 | 6D/01/早 | | 12:45 | 12:45 | 00:00 | 13:45 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | BC2678 | 6D/02 | | | 62564 | 6D/06/早 | | 13:00 | | | 13:54 | | | 美孚 | | | | | 牛頭角 | | | 20 | |
| 5D | HW7486 | 6D/07 | | | 63241 | 6D/02/早 | | 13:00 | | | 14:00 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | HR1554 | 6D/03 | 64079 | 6D/07/早 | 64079 | 6D/07/早 | | 13:10 | | | 14:09 | | | 美孚 | | | | | 牛頭角 | | | 10 | |
| 5D | HR 586 | 6D/08 | 64930 | 6D/03/早 | 64930 | 6D/03/早 | | 13:15 | | | 14:15 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | HT3592 | 6D/05 | 61961 | 6D/L02/早 | 63555 | 6D/09/早 | | 13:25 | | | 14:24 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | HR 881 | 6D/09 | 78620 | 6D/04/早 | 78620 | 6D/04/早 | | 13:30 | | | 14:30 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | JA6071 | 6D/04 | 68752 | 6D/08/早 | 62121 | 6D/L01/早 | | 13:40 | | | 14:39 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | HY 583 | 6D/01 | 63763 | 6D/05/早 | 63763 | 6D/05/早 | | 13:45 | | | 14:45 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | JA5239 | 6D/06 | 72855 | 6D/01/早 | 欠人 | 6D/L03/早 | | 13:55 | | | 14:54 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | BC2678 | 6D/02 | 62564 | 6D/06/早 | 62564 | 6D/06/早 | | 14:00 | | | 15:00 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | HW7486 | 6D/07 | 63241 | 6D/02/早 | 65153 | 6D/L21/夜 | | 14:10 | | | 15:09 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | HR1554 | 6D/03 | 64079 | 6D/07/早 | 64079 | 6D/07/早 | | 14:15 | | | 15:15 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | HR 586 | 6D/08 | 64930 | 6D/03/早 | 61961 | 6D/L02/早 | | 14:25 | | | 15:24 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | HT3592 | 6D/05 | 63555 | 6D/09/早 | 63555 | 6D/09/早 | | 14:30 | | | 15:30 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | HR 881 | 6D/09 | 78620 | 6D/04/早 | 64313 | 6D/05/夜 | | 14:40 | | | 15:39 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | JA6071 | 6D/04 | 62121 | 6D/L01/早 | 62121 | 6D/L01/早 | | 14:45 | | | 15:45 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | HY 583 | 6D/01 | 63763 | 6D/05/早 | 63914 | 6D/09/夜 | | 14:55 | | | 15:54 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | JA5239 | 6D/06 | 欠人 | 6D/L03/早 | 欠人 | 6D/L03/早 | | 15:00 | | | 16:00 | | | 牛頭角 | | | | | 美孚 | | | 15 | |
| 5D | BC2678 | 6D/02 | 62564 | 6D/06/早 | 70538 | 6D/06/夜 | | 15:10 | | | 16:09 | | | 美孚 | | | | | 牛頭角 | | | 15 | |
| 5D | HW7486 | 6D/07 | 65153 | 6D/L21/夜 | 65153 | 6D/L21/夜 | | 15:15 | | | 16:15 | | | 牛頭角 | | | | | 美孚 | | | 15 | |

→ 路線出車率:

→ 車輛資料:

↓ 車長資料:

車長: 62564 XXX (月薪)
崗位: 6D/06/早
用膳時間: 99:99 – 99:99

↓ 事件資料:

壞車:
崗位: 6D/02
編定開出時間: 11:45
實際到達時間: 12:45

遲到原因:

→ 統計資料:

已抽調

事件已解決

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |
| 張子良 | 偏離行車路線 | C35A | 04 | 73914 | ND6181 | -- | -- | -- | 31618 | | | | | -- | -- | -- | -- | -- | -- |

**Illustration by Examples –
Crew Shortage + Automatic Departure Regulation**

**ROM System Proposal
Control Center Operation**

8.1.2 – Handling Crew Shortage + automatic departure time regulation (route 98C)

➔ New item will be added to the incident board of OCC automatically

| 車務控制中心：荔枝角 | | | | 系統時間： 2014-08-01 05:00:00 | | | | |
|------------|----------------|------------|----|---------------------------|--------|--------|----------|----------|
| 調度員 | 事故類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 輸入者 | 輸入時間 | 參考編號 |
| 張子良 | 欠人收車 | 98C | 05 | 70603 | SH9990 | ROM | 05:00:00 | 35216 |
| 李超 | 欠人 | C12 | 05 | 66421 | GZ4853 | TOM | 08:45:20 | 31523 |
| 王大同 | 欠車 | | 06 | 65658 | KR4350 | TOM | 08:45:20 | 31513 |
| 何小明 | 尚未抵達 影響往後出車 | 自動顯示欠人收車事件 | | | 18 | KW3187 | 王大同 | 09:18:05 |
| 張子良 | 壞車 | | | | 93 | MM2038 | 李超 | 08:12:16 |
| 李超 | 劈車 | | | | 251 | JK1583 | 何小明 | 09:12:06 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | OCM | 07:45:20 | 31353 |
| 王大同 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 王大同 | 07:50:10 | 31381 |
| 王大同 | 預計延遲到達 | C 8A | 01 | 1155 | RJ6184 | ROM | 09:32:47 | 31668 |
| 李超 | 偏離行車路線 | C35A | 04 | 73914 | ND6181 | ROM | 09:28:20 | 31618 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | ROM | 09:33:51 | 31675 |
| | : | | | | | : | | |
| | : | | | | | : | | |
| | : | | | | | : | | |

Illustration by Examples – Crew Shortage + Automatic Departure Regulation

ROM System Proposal Control Center Operation

→ New item will be added to the incident board on dispatcher's monitoring board

調度員: 張子良

事件狀況: 處理中/處理完畢/所有 ▼



系統時間: 2014-08-01 05:00:00

| 調度員 | 事故類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|------------|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 欠人收車 | 98C | 05 | 70603 | SH9990 | 13:45 | 14:45 | | 35216 | | | | | 98C | 05 | 06:12 | 98C | 05 | 06:12 |
| 張子良 | 延遲抵達沒有原因 | C3 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6 | 自動顯示欠人收車事件 | 754 | | 11:45 | 12:45 | | 34516 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C3 | | 2168 | | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 04581 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

| 路線 | 往 | 遲 | 早 | -0/+ | 最長延誤 | | 最長提早 | | 本月累積失班率 | 當天累積失班率 | | | |
|-----|-------|---|---|--------|------|-----|------|-----|---------|--------------|--------------|--------------|--------------|
| | | | | | 分鐘 | 字軌 | 分鐘 | 字軌 | | 0500-1000 | 1000-1500 | 1500-2000 | 2000-0200 |
| 2A | 美孚 | | | 0/3/2 | -4 | 06 | +9 | L05 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| | 樂華 | | | 2/3/2 | -4 | 06 | +9 | L05 | | | | | |
| 6 | 美孚 | | | 2/8/0 | -9 | 03 | +5 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| | 荔枝角 | | | 3/6/2 | -9 | 03 | +5 | 07 | | | | | |
| 6D | 美孚 | | | 3/3/2 | -8 | 09 | +6 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| | 牛頭角 | | | 1/5/2 | -8 | 09 | +6 | 02 | | | | | |
| 6X | 中間道 | | | 0/4/1 | - | | +3 | 03 | 0 | 0/8 (0%) | - | - | - |
| 28 | 麼地道 | | | 1/6/2 | -4 | 05 | +6 | 01 | 1.34% | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) |
| | 麼地道 | | | 2/6/0 | -4 | 05 | +6 | 01 | | | | | |
| 38A | 美孚 | | | 0/4/0 | - | | - | | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| | 海濱花園 | | | 0/4/0 | - | | - | | | | | | |
| 72 | 長沙灣 | | | 3/5/1 | -4 | 05 | +11 | 09 | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| | 太和 | | | 1/3/4 | -4 | 05 | +11 | 09 | | | | | |
| 86 | 美孚 | | | 2/3/2 | -5 | 02 | +7 | S02 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| | 黃泥頭 | | | 1/4/2 | -5 | 02 | +7 | S02 | | | | | |
| 6C | 美孚 | | | 5/6/2 | -12 | S04 | +4 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| | 九龍城碼頭 | | | 3/10/2 | -12 | S04 | +4 | 06 | | | | | |

Illustration by Examples – Crew Shortage + Automatic Departure Regulation

ROM System Proposal Control Center Operation

→ Departures affected will have the word “欠人收車” displayed in the BC columns

日期:
20-08-2014

時間:
99:99 - 99:99

路線: 方向:

58M 往良景 ☒

58M 往葵芳 ☒

58P 往良景 ☐

58P 往葵芳 ☐

59M 往屯碼頭 ☐

59M 往荃鐘 ☐

車牌:

JU3065

NA8693

KL1584

HP4367

HK5581

PB1632

車長:

77425

6628

65138

72161

1834

調整班次 (F12)

排序: 車輛 / 車長 / 時間

| 路線 | 車輛 | 車輛崗位 | 載來車長 | 載來車長崗位 | 載走車長 | 載走車長崗位 | 同行車長 | 同行車長崗位 | 編定 | 實際 | 提早 | 編定 | 已抵達中途站 | 預計尚餘 |
|----|---------|------------|------|--------|-------|----------|------|--------|------|------|----|----|--------|------|
| 8C | SI 709 | 98C/01 (廠) | - | - | 78777 | 98C/01/早 | - | - | 5:29 | 5:30 | - | - | - | - |
| 8C | SI 709 | 98C/01 | - | - | 78777 | 98C/01/早 | - | - | 5:30 | 6:25 | - | - | - | - |
| 8C | SI 571 | 98C/04 (廠) | - | - | 62860 | 98C/04/早 | - | - | 5:39 | 5:40 | - | - | - | - |
| 8C | SI 6462 | 98C/02 (廠) | - | - | 73119 | 98C/02/早 | - | - | 5:44 | 5:45 | - | - | - | - |
| 8C | SI 6462 | 98C/02 | - | - | 73119 | 98C/02/早 | - | - | 5:45 | 6:40 | - | - | - | - |
| 8C | SH9990 | 98C/05 (廠) | - | - | 欠人收車 | 98C/05/早 | - | - | 5:54 | 5:55 | - | - | - | - |
| 8C | SI 571 | 98C/04 | - | - | 62860 | 98C/04/早 | - | - | 6:00 | 6:55 | - | - | - | - |
| 8C | SH9990 | 98C/05 | - | - | 欠人收車 | 98C/05/早 | - | - | 6:12 | 7:07 | - | - | - | - |
| 8C | SI 4110 | 98C/15 (廠) | - | - | 78334 | 98C/15/早 | - | - | 6:15 | 6:24 | - | - | - | - |
| 8C | SH8461 | 98C/06 (廠) | - | - | 73893 | 98C/06/早 | - | - | 6:20 | 6:36 | - | - | - | - |
| 8C | SI 4110 | 98C/15 | - | - | 78334 | 98C/15/早 | - | - | 6:24 | 7:24 | - | - | - | - |
| 8C | SH9233 | 98C/08 (廠) | - | - | 77234 | 98C/08/早 | - | - | 6:32 | 6:48 | - | - | - | - |
| 8C | SH7944 | 98C/09 (廠) | - | - | 70074 | 98C/09/早 | - | - | 6:34 | 6:35 | - | - | - | - |
| 8C | SH8461 | 98C/06 | - | - | 73893 | 98C/06/早 | - | - | 6:36 | 7:36 | - | - | - | - |
| 8C | SI 709 | 98C/01 | - | - | 78777 | 98C/01/早 | - | - | 6:40 | 7:40 | - | - | - | - |
| 8C | SH9233 | 98C/08 | - | - | 77234 | 98C/08/早 | - | - | 6:48 | 7:48 | - | - | - | - |
| 8C | SI 6462 | 98C/02 | - | - | 73119 | 98C/02/早 | - | - | 6:55 | 7:55 | - | - | - | - |
| 8C | SI 3942 | 98C/03 (廠) | - | - | 77977 | 98C/03/早 | - | - | 6:58 | 6:59 | - | - | - | - |
| 8C | SI 3942 | 98C/03 | - | - | 77977 | 98C/03/早 | - | - | 6:59 | 7:59 | - | - | - | - |
| 8C | SI 4443 | 98C/07 (廠) | - | - | 70461 | 98C/07/早 | - | - | 7:00 | 7:09 | - | - | - | - |
| 8C | SI 4443 | 98C/07 | - | - | 70461 | 98C/07/早 | - | - | 7:09 | 8:09 | - | - | - | - |
| 8C | SI 571 | 98C/04 | - | - | 62860 | 98C/04/早 | - | - | 7:10 | 8:10 | - | - | - | - |
| 8C | SH8404 | 98C/10 (廠) | - | - | 63253 | 98C/10/早 | - | - | 7:14 | 7:30 | - | - | - | - |
| 8C | SH7944 | 98C/09 | - | - | 70074 | 98C/09/早 | - | - | 7:20 | 8:20 | - | - | - | - |
| 8C | SH9990 | 98C/05 | - | - | 欠人收車 | 98C/05/早 | - | - | 7:22 | 8:22 | - | - | - | - |
| 8C | SI 227 | 98C/11 (廠) | - | - | 75263 | 98C/11/早 | - | - | 7:25 | 7:41 | - | - | - | - |
| 8C | SH8404 | 98C/10 | - | - | 63253 | 98C/10/早 | - | - | 7:30 | 8:30 | - | - | - | - |
| 8C | SI 4110 | 98C/15 | - | - | 78334 | 98C/15/早 | - | - | 7:33 | 8:33 | - | - | - | - |
| 8C | SI 227 | 98C/11 | - | - | 75263 | 98C/11/早 | - | - | 7:41 | 8:41 | - | - | - | - |
| 8C | SH8461 | 98C/06 | - | - | 73893 | 98C/06/早 | - | - | 7:44 | 8:44 | - | - | - | - |

→ 路線出車率:

→ 車輛資料:

↓ 車長資料:

車長: 70603 XXX (月薪)

崗位: 98C/05/早

用膳時間: 99:99 – 99:99

↓ 事件資料:

欠人收車:

崗位: 98C/05

編定開出時間: 06:12

實際到達時間: -

→ 統計資料:

| 調度員 | 事故類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影響路線 | 響班字軌 | 次(車)開出 | 受影響路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|-------|------|--------|-------|------|--------|
| 張子良 | 欠人收車 | 98C | 05 | 70603 | SH9990 | 13:45 | 14:45 | | 35216 | | | | | 98C | 05 | 06:12 | 98C | 05 | 06:12 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 34516 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Illustration by Examples – Crew Shortage + Automatic Departure Regulation

➔ Regulate departures to evenly distribute the departure times

ROM System Proposal Control Center Operation

日期: 20-08-2014

時間: 99:99 - 99:99

路線: 98C 往美孚 ✓

98C 往坑口(北) ✓

58P 往良景

58P 往葵芳

59M 往屯碼頭

59M 往荃灣

車牌: 3C2678, VA8693, KL1584, HP4367, HK5581, 9B1632

車長: 77425, 6628, 65138, 72161, 1834

行車時間表 (F12) 發放訊息 (F10)

排序: 車輛 / 車長 / 時間

| 路線 | 車輛 | 車輛崗位 | 截來車長 | 車長崗位 | 截走車長 | 車長崗位 | 編定 | 編定 | 開車 | 到達 | 已到達 | 已拍咗 | 起點 | 中途起點 | 終點 | 聯絡OCC | 班次 |
|-----|--------|------------|-------|----------|-------|----------|------|------|----|----|-----|-----|-------|------|-------|-------|----|
| 98C | SJ6462 | 98C/02 | 73119 | 98C/02/早 | 73119 | 98C/02/早 | 5:45 | 6:40 | | | | | 坑口(北) | | 美孚 | | 15 |
| 98C | SH9990 | 98C/05 (私) | - | - | 欠人收車 | 98C/05/早 | 5:54 | 5:55 | | | | | 坑口(北) | | 坑口(北) | | - |
| 98C | SJ571 | 98C/04 | 62860 | 98C/04/早 | 62860 | 98C/04/早 | 6:00 | 6:55 | | | | | 坑口(北) | | 美孚 | | 15 |
| 98C | SH9990 | 98C/05 | 欠人收車 | 98C/05/早 | 欠人收車 | 98C/05/早 | 6:12 | 7:07 | | | | | 坑口(北) | | 美孚 | | - |
| 98C | SJ4110 | 98C/15 (廠) | - | - | 78334 | 98C/15/早 | 6:15 | 6:24 | | | | | 將軍澳廠 | | 坑口(北) | | - |
| 98C | SH8461 | 98C/06 (廠) | - | - | 73893 | 98C/06/早 | 6:20 | 6:36 | | | | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SJ4110 | 98C/15 | 78334 | 98C/15/早 | 78334 | 98C/15/早 | 6:24 | 7:24 | | | | | 坑口(北) | | 美孚 | | 24 |
| 98C | SH9233 | 98C/08 (廠) | - | - | 77234 | 98C/08/早 | 6:32 | 6:48 | | | | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SH7944 | 98C/09 (私) | - | - | 70074 | 98C/09/早 | 6:34 | 6:35 | | | | | 坑口(北) | | 坑口(北) | | - |
| 98C | SH8461 | 98C/06 | 73893 | 98C/06/早 | 73893 | 98C/06/早 | 6:36 | 7:36 | | | | | 坑口(北) | | 美孚 | | 12 |
| 98C | SJ709 | 98C/01 | 78777 | 98C/01/早 | 78777 | 98C/01/早 | 6:40 | 7:40 | | | | | 美孚 | | 坑口(北) | | - |
| 98C | SH9233 | 98C/08 | 77234 | 98C/08/早 | 77234 | 98C/08/早 | 6:48 | 7:48 | | | | | 坑口(北) | | 美孚 | | 12 |
| 98C | SJ6462 | 98C/02 | 73119 | 98C/02/早 | 73119 | 98C/02/早 | 6:55 | 7:55 | | | | | 美孚 | | 坑口(北) | | 15 |
| 98C | SJ3942 | 98C/03 (廠) | - | - | 77977 | 98C/03/早 | 6:58 | 6:59 | | | | | 坑口(北) | | 坑口(北) | | - |
| 98C | SJ3942 | 98C/03 | 77977 | 98C/03/早 | 77977 | 98C/03/早 | 6:59 | 7:59 | | | | | 坑口(北) | | 美孚 | | 11 |
| 98C | SJ4443 | 98C/07 (廠) | - | - | 70461 | 98C/07/早 | 7:00 | 7:09 | | | | | 將軍澳廠 | | 坑口(北) | | - |
| 98C | SJ4443 | 98C/07 | 70461 | 98C/07/早 | 70461 | 98C/07/早 | 7:09 | 8:09 | | | | | 坑口(北) | | 美孚 | | 10 |
| 98C | SJ571 | 98C/04 | 62860 | 98C/04/早 | 62860 | 98C/04/早 | 7:10 | 8:10 | | | | | 美孚 | | 坑口(北) | | 15 |
| 98C | SH8404 | 98C/10 (廠) | - | - | 63253 | 98C/10/早 | 7:14 | 7:30 | | | | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SH7944 | 98C/09 | 70074 | 98C/09/早 | 70074 | 98C/09/早 | 7:20 | 8:20 | | | | | 坑口(北) | | 美孚 | | 11 |
| 98C | SH9990 | 98C/05 | 欠人收車 | 98C/05/早 | 欠人收車 | 98C/05/早 | 7:22 | 8:22 | | | | | 美孚 | | 坑口(北) | | - |
| 98C | SJ227 | 98C/11 (廠) | - | - | 75263 | 98C/11/早 | 7:25 | 7:41 | | | | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SH8404 | 98C/10 | 63253 | 98C/10/早 | 63253 | 98C/10/早 | 7:30 | 8:30 | | | | | 坑口(北) | | 美孚 | | 10 |
| 98C | SJ4110 | 98C/15 | 78334 | 98C/15/早 | 78334 | 98C/15/早 | 7:33 | 8:33 | | | | | 美孚 | | 坑口(北) | | 23 |
| 98C | SJ227 | 98C/11 | 75263 | 98C/11/早 | 75263 | 98C/11/早 | 7:41 | 8:41 | | | | | 坑口(北) | | 美孚 | | 11 |
| 98C | SH8461 | 98C/06 | 73893 | 98C/06/早 | 73893 | 98C/06/早 | 7:44 | 8:44 | | | | | 美孚 | | 坑口(北) | | 11 |
| 98C | SJ709 | 98C/01 | 78777 | 98C/01/早 | 78777 | 98C/01/早 | 7:51 | 8:51 | | | | | 坑口(北) | | 美孚 | | 10 |
| 98C | SH9233 | 98C/08 | 77234 | 98C/08/早 | 77234 | 98C/08/早 | 7:55 | 8:55 | | | | | 美孚 | | 坑口(北) | | 11 |

☐ 不同方向班次分開顯示

☐ 只顯示班次

提前欠人/欠車班次之後一班車開車時間.

適用於 [] 至 [] 開出之班次

提前欠人/欠車班次之後

☒ [] 班車的開車時間

☐ 所有班車的開車時間

執行

套用以往調整後的行車時間:

- 58M 平日收 7 車(10月23日星期四)
- 58M 平日收 7 車(10月6日星期一)

調度員事件板:

| 調度員 | 事故類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影響路線 | 響班字軌 | 次(車)開出 | 受影響路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|-------|------|--------|-------|------|--------|
| 張子良 | 欠人收車 | 98C | 05 | 70603 | SH9990 | 13:45 | 14:45 | | 35216 | | | | | 98C | 05 | 06:12 | 98C | 05 | 06:12 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 34516 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Illustration by Examples – Crew Shortage + Automatic Departure Regulation

ROM System Proposal Control Center Operation

➔ Select first departure with missing BC and input departure regulating instructions, and then click “Execute 執行”

日期:
20-08-2014

時間:
99:99 - 99:99

路線: 方向:

98C 往美孚 ✓

98C 往坑口(北) ✓

58P 往良景

58P 往葵芳

59M 往屯碼

59M 往荃灣

車牌:

3C2678
 NA8693
 KL1584
 HP4367
 HK5581
 PB1632

車長:

77425
 6628
 65138
 72161
 1834

行車時間表 (F12)

發放訊息 (F10)

排序: 車輛 / 車長 / 時間

☐ 不同方向班次分開顯示
☐ 只顯示班次

提前欠人/欠車班次之後一班車開車時間。

 適用於 06:00 至 15:30 開出之班次

 提前欠人/欠車班次之後
☒ 2 班車的開車時間
☐ 所有班車的開車時間

執行

套用以往調整後的行車時間:

- 58M 平日收 7 車(10 月 23 日星期四)
- 58M 平日收 7 車(10 月 6 日星期一)

| 路線 | 車輛 | 車輛崗位 | 載來車長 | 車長崗位 | 載走車長 | 車長崗位 | 開車 | 到達 | 已拍咭 | 起點 | 中途起載站 | 終點 | 聯絡OCC | 班次 |
|-----|--------|------------|-------|----------|-------|----------|------|------|-----|-------|-------|-------|-------|----|
| 98C | SJ6462 | 98C/02 | 73119 | 98C/02/早 | 73119 | 98C/02/早 | 5:45 | 6:40 | | 坑口(北) | | 美孚 | | 15 |
| 98C | SH9990 | 98C/05 (私) | - | - | 欠人收車 | 98C/05/早 | 5:54 | 5:55 | | 坑口(北) | | 坑口(北) | | - |
| 98C | SJ 571 | 98C/04 | 62860 | 98C/04/早 | 62860 | 98C/04/早 | 6:00 | 6:55 | | 坑口(北) | | 美孚 | | 15 |
| 98C | SH9990 | 98C/05 | 欠人收車 | 98C/05/早 | 欠人收車 | 98C/05/早 | 6:12 | 7:07 | | 坑口(北) | | 美孚 | | - |
| 98C | SJ4110 | 98C/15 (廠) | - | - | 78334 | 98C/15/早 | 6:15 | 6:24 | | 將軍澳廠 | | 坑口(北) | | - |
| 98C | SH8461 | 98C/06 (廠) | - | - | 73893 | 98C/06/早 | 6:20 | 6:36 | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SJ4110 | 98C/15 | 78334 | 98C/15/早 | 78334 | 98C/15/早 | 6:24 | 7:24 | | 坑口(北) | | 美孚 | | 24 |
| 98C | SH9233 | 98C/08 (廠) | - | - | 77234 | 98C/08/早 | 6:32 | 6:48 | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SH7944 | 98C/09 (私) | - | - | 70074 | 98C/09/早 | 6:34 | 6:35 | | 坑口(北) | | 坑口(北) | | - |
| 98C | SH8461 | 98C/06 | 73893 | 98C/06/早 | 73893 | 98C/06/早 | 6:36 | 7:36 | | 坑口(北) | | 美孚 | | 12 |
| 98C | SJ 709 | 98C/01 | 78777 | 98C/01/早 | 78777 | 98C/01/早 | 6:40 | 7:40 | | 美孚 | | 坑口(北) | | - |
| 98C | SH9233 | 98C/08 | 77234 | 98C/08/早 | 77234 | 98C/08/早 | 6:48 | 7:48 | | 坑口(北) | | 美孚 | | 12 |
| 98C | SJ6462 | 98C/02 | 73119 | 98C/02/早 | 73119 | 98C/02/早 | 6:55 | 7:55 | | 美孚 | | 坑口(北) | | 15 |
| 98C | SJ3942 | 98C/03 (廠) | - | - | 77977 | 98C/03/早 | 6:58 | 6:59 | | 坑口(北) | | 坑口(北) | | - |
| 98C | SJ3942 | 98C/03 | 77977 | 98C/03/早 | 77977 | 98C/03/早 | 6:59 | 7:59 | | 坑口(北) | | 美孚 | | 11 |
| 98C | SJ4443 | 98C/07 (廠) | - | - | 70461 | 98C/07/早 | 7:00 | 7:09 | | 將軍澳廠 | | 坑口(北) | | - |
| 98C | SJ4443 | 98C/07 | 70461 | 98C/07/早 | 70461 | 98C/07/早 | 7:09 | 8:09 | | 坑口(北) | | 美孚 | | 10 |
| 98C | SJ 571 | 98C/04 | 62860 | 98C/04/早 | 62860 | 98C/04/早 | 7:10 | 8:10 | | 美孚 | | 坑口(北) | | 15 |
| 98C | SH8404 | 98C/10 (廠) | - | - | 63253 | 98C/10/早 | 7:14 | 7:30 | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SH7944 | 98C/09 | 70074 | 98C/09/早 | 70074 | 98C/09/早 | 7:20 | 8:20 | | 坑口(北) | | 美孚 | | 11 |
| 98C | SH9990 | 98C/05 | 欠人收車 | 98C/05/早 | 欠人收車 | 98C/05/早 | 7:22 | 8:22 | | 美孚 | | 坑口(北) | | - |
| 98C | SJ 227 | 98C/11 (廠) | - | - | 75263 | 98C/11/早 | 7:25 | 7:41 | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SH8404 | 98C/10 | 63253 | 98C/10/早 | 63253 | 98C/10/早 | 7:30 | 8:30 | | 坑口(北) | | 美孚 | | 10 |
| 98C | SJ4110 | 98C/15 | 78334 | 98C/15/早 | 78334 | 98C/15/早 | 7:33 | 8:33 | | 美孚 | | 坑口(北) | | 23 |
| 98C | SJ 227 | 98C/11 | 75263 | 98C/11/早 | 75263 | 98C/11/早 | 7:41 | 8:41 | | 坑口(北) | | 美孚 | | 11 |
| 98C | SH8461 | 98C/06 | 73893 | 98C/06/早 | 73893 | 98C/06/早 | 7:44 | 8:44 | | 美孚 | | 坑口(北) | | 11 |
| 98C | SJ 709 | 98C/01 | 78777 | 98C/01/早 | 78777 | 98C/01/早 | 7:51 | 8:51 | | 坑口(北) | | 美孚 | | 10 |
| 98C | SH9233 | 98C/08 | 77234 | 98C/08/早 | 77234 | 98C/08/早 | 7:55 | 8:55 | | 美孚 | | 坑口(北) | | 11 |

調度員事件板:

| 調度員 | 事故類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 欠人收車 | 98C | 05 | 70603 | SH9990 | 13:45 | 14:45 | | 35216 | | | | | 98C | 05 | 06:12 | 98C | 05 | 06:12 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 34516 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Illustration by Examples – Crew Shortage + Automatic Departure Regulation

➔ Departure regulation complete

ROM System Proposal Control Center Operation

日期:
20-08-2014

時間:
99:99 - 99:99

路線: 98C 往美孚

方向: 往坑口(北)

車牌: 3C2678, VA8693, KL1584, HP4367, HK5581, 9B1632

車長: 77425, 6628, 65138, 72161, 1834

行車時間表 (F12)

發放訊息 (F10)

排序: 車輛 / 車長 / 時間

☐ 不同方向班次分開顯示
☐ 只顯示班次

提前欠人/欠車班次之後一班車開車時間。

適用於 [] 至 [] 開出之班次

提前欠人/欠車班次之後

☐ 班車的開車時間

☐ 所有班車的開車時間

執行

套用以往調整後的行車時間:

- 58M 平日收 7 車(10月23日星期四)
- 58M 平日收 7 車(10月6日星期一)

| 路線 | 車輛 | 車輛崗位 | 截來車長 | 車長崗位 | 截走車長 | 車長崗位 | 編定 | 編定 | 開車 | 到達 | 已到達 | 已拍咭 | 起點 | 中途起點 | 終點 | 聯駁occ | 班次 |
|-----|--------|------------|-------|----------|-------|----------|------|------|----|----|-----|-----|-------|------|-------|-------|----|
| 98C | SJ6462 | 98C/02 | 73119 | 98C/02/早 | 73119 | 98C/02/早 | 5:45 | 6:40 | | | | | 坑口(北) | | 美孚 | | 15 |
| 98C | SH9990 | 98C/05 (私) | - | - | 欠人收車 | 98C/05/早 | 5:54 | 5:55 | | | | | 坑口(北) | | 坑口(北) | | - |
| 98C | SJ571 | 98C/04 | 62860 | 98C/04/早 | 62860 | 98C/04/早 | 6:00 | 6:55 | | | | | 坑口(北) | | 美孚 | | 15 |
| 98C | SH9990 | 98C/05 | 欠人收車 | 98C/05/早 | 欠人收車 | 98C/05/早 | 6:12 | 7:07 | | | | | 坑口(北) | | 美孚 | | - |
| 98C | SJ4110 | 98C/15 (廠) | - | - | 78334 | 98C/15/早 | 6:07 | 6:16 | | | | | 將軍澳廠 | | 坑口(北) | | - |
| 98C | SH8461 | 98C/06 (廠) | - | - | 73893 | 98C/06/早 | 6:16 | 6:32 | | | | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SJ4110 | 98C/15 | 78334 | 98C/15/早 | 78334 | 98C/15/早 | 6:16 | 7:16 | | | | | 坑口(北) | | 美孚 | | 16 |
| 98C | SH9233 | 98C/08 (廠) | - | - | 77234 | 98C/08/早 | 6:32 | 6:48 | | | | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SH7944 | 98C/09 (私) | - | - | 70074 | 98C/09/早 | 6:34 | 6:35 | | | | | 坑口(北) | | 坑口(北) | | - |
| 98C | SH8461 | 98C/06 | 73893 | 98C/06/早 | 73893 | 98C/06/早 | 6:32 | 7:32 | | | | | 坑口(北) | | 美孚 | | 16 |
| 98C | SJ709 | 98C/01 | 78777 | 98C/01/早 | 78777 | 98C/01/早 | 6:40 | 7:40 | | | | | 美孚 | | 坑口(北) | | - |
| 98C | SH9233 | 98C/08 | 77234 | 98C/08/早 | 77234 | 98C/08/早 | 6:48 | 7:48 | | | | | 坑口(北) | | 美孚 | | 16 |
| 98C | SJ6462 | 98C/02 | 73119 | 98C/02/早 | 73119 | 98C/02/早 | 6:55 | 7:55 | | | | | 美孚 | | 坑口(北) | | 15 |
| 98C | SJ3942 | 98C/03 (廠) | - | - | 77977 | 98C/03/早 | 6:58 | 6:59 | | | | | 坑口(北) | | 坑口(北) | | - |
| 98C | SJ3942 | 98C/03 | 77977 | 98C/03/早 | 77977 | 98C/03/早 | 6:59 | 7:59 | | | | | 坑口(北) | | 美孚 | | 11 |
| 98C | SJ4443 | 98C/07 (廠) | - | - | 70461 | 98C/07/早 | 7:00 | 7:09 | | | | | 將軍澳廠 | | 坑口(北) | | - |
| 98C | SJ4443 | 98C/07 | 70461 | 98C/07/早 | 70461 | 98C/07/早 | 7:09 | 8:09 | | | | | 坑口(北) | | 美孚 | | 10 |
| 98C | SJ571 | 98C/04 | 62860 | 98C/04/早 | 62860 | 98C/04/早 | 7:10 | 8:10 | | | | | 美孚 | | 坑口(北) | | 15 |
| 98C | SH8404 | 98C/10 (廠) | - | - | 63253 | 98C/10/早 | 7:14 | 7:30 | | | | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SH7944 | 98C/09 | 70074 | 98C/09/早 | 70074 | 98C/09/早 | 7:20 | 8:20 | | | | | 坑口(北) | | 美孚 | | 11 |
| 98C | SH9990 | 98C/05 | 欠人收車 | 98C/05/早 | 欠人收車 | 98C/05/早 | 7:22 | 8:22 | | | | | 美孚 | | 坑口(北) | | - |
| 98C | SJ227 | 98C/11 (廠) | - | - | 75263 | 98C/11/早 | 7:25 | 7:41 | | | | | 駿宏街C行 | | 坑口(北) | | - |
| 98C | SH8404 | 98C/10 | 63253 | 98C/10/早 | 63253 | 98C/10/早 | 7:30 | 8:30 | | | | | 坑口(北) | | 美孚 | | 10 |
| 98C | SJ4110 | 98C/15 | 78334 | 98C/15/早 | 78334 | 98C/15/早 | 7:25 | 8:25 | | | | | 美孚 | | 坑口(北) | | 15 |
| 98C | SJ227 | 98C/11 | 75263 | 98C/11/早 | 75263 | 98C/11/早 | 7:41 | 8:41 | | | | | 坑口(北) | | 美孚 | | 11 |
| 98C | SH8461 | 98C/06 | 73893 | 98C/06/早 | 73893 | 98C/06/早 | 7:40 | 8:40 | | | | | 美孚 | | 坑口(北) | | 15 |
| 98C | SJ709 | 98C/01 | 78777 | 98C/01/早 | 78777 | 98C/01/早 | 7:51 | 8:51 | | | | | 坑口(北) | | 美孚 | | 10 |
| 98C | SH9233 | 98C/08 | 77234 | 98C/08/早 | 77234 | 98C/08/早 | 7:55 | 8:55 | | | | | 美孚 | | 坑口(北) | | 15 |

調度員事件板:

| 調度員 | 事故類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影響路線 | 響班字軌 | 次(車)開出 | 受影響路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|-------|------|--------|-------|------|--------|
| 張子良 | 欠人收車 | 98C | 05 | 70603 | SH9990 | 13:45 | 14:45 | | 35216 | | | | | 98C | 05 | 06:12 | 98C | 05 | 06:12 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 34516 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Illustration by Examples – Delay of Arrival + Departure Regulation

ROM System Proposal Control Center Operation

8.1.3 – Handling delay of arrival + departure time regulation (route 42)

- ➔ When the system detects that the bus cannot arrive on time and the next departure will be delayed, new item will be added to the incident board of OCC automatically

| 車務控制中心：荔枝角 | | | | 系統時間： 2014-08-01 14:56:00 | | | | | |
|------------|----------------|------------|----|---------------------------|--------|--------|----------|----------|-------|
| 調度員 | 事故類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 輸入者 | 輸入時間 | 參考編號 | |
| 張子良 | 行車過時 | 58M | 02 | 60757 | JU3065 | ROM | 12:45:00 | 35216 | |
| 李超 | 欠人 | C12 | 05 | 65421 | GZ4853 | TOM | 08:45:20 | 31523 | |
| 王大同 | 欠車 | | 06 | 65658 | KR4350 | TOM | 08:45:20 | 31513 | |
| 何小明 | 尚未抵達 影響往後出車 | 自動顯示行車過時事件 | | | 8 | KW3187 | 王大同 | 09:18:05 | 31608 |
| 張子良 | 壞車 | | | | 93 | MM2038 | 李超 | 08:12:16 | 31468 |
| 李超 | 劈車 | | | | 1 | JK1583 | 何小明 | 09:12:06 | 31594 |
| 張子良 | 交通意外 | C39A | 05 | 35047 | LM2168 | OCM | 07:45:20 | 31353 | |
| 王大同 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 王大同 | 07:50:10 | 31381 | |
| 王大同 | 預計延遲到達 | C8A | 01 | 1155 | RJ6184 | ROM | 09:32:47 | 31668 | |
| 李超 | 偏離行車路線 | C35A | 04 | 73914 | ND6181 | ROM | 09:28:20 | 31618 | |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | ROM | 09:33:51 | 31675 | |
| | : | | | | | : | | | |
| | : | | | | | : | | | |
| | : | | | | | : | | | |

Illustration by Examples – Delay of Arrival + Departure Regulation

ROM System Proposal Control Center Operation

→ New item will be created to the incident board on dispatcher's screen

| 調度員: 張子良 | | 事件狀況: 處理中/處理完畢/所有 ▼ | | 系統時間: 2014-08-01 14:56:12 | | | | | | | | | | | | | | | |
|----------|-----------|---------------------|------------|---------------------------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
| 張子良 | 行車過時 | 58M | 02 | 60757 | JU3065 | 13:45 | 14:45 | | 31653 | | | | | 58M | 02 | 14:52 | 58M | 02 | 14:52 |
| 張子良 | 延遲抵達沒有原因 | C39A | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6 | 自動顯示行車過時事件 | | 754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 2168 | | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 04381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

| 路線 | 往 | 遲 | 早 | -/0/+ | 最長延誤 | | 最長提早 | | 本月累積失班率 | 當天累積失班率 | | | |
|-----|-------|---|---|--------|------|-----|------|-----|---------|--------------|--------------|--------------|--------------|
| | | | | | 分鐘 | 字軌 | 分鐘 | 字軌 | | 0500-1000 | 1000-1500 | 1500-2000 | 2000-0200 |
| 2A | 美孚 | | | 0/3/2 | -4 | 06 | +9 | L05 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| | 樂華 | | | 2/3/2 | -4 | 06 | +9 | L05 | | | | | |
| 6 | 美孚 | | | 2/8/0 | -9 | 03 | +5 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| | 荔枝角 | | | 3/6/2 | -9 | 03 | +5 | 07 | | | | | |
| 6D | 美孚 | | | 3/3/2 | -8 | 09 | +6 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| | 牛頭角 | | | 1/5/2 | -8 | 09 | +6 | 02 | | | | | |
| 6X | 中間道 | | | 0/4/1 | - | | +3 | 03 | 0 | 0/8 (0%) | - | - | - |
| 28 | 麼地道 | | | 1/6/2 | -4 | 05 | +6 | 01 | 1.34% | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) |
| | 麼地道 | | | 2/6/0 | -4 | 05 | +6 | 01 | | | | | |
| 38A | 美孚 | | | 0/4/0 | - | | - | | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| | 海濱花園 | | | 0/4/0 | - | | - | | | | | | |
| 72 | 長沙灣 | | | 3/5/1 | -4 | 05 | +11 | 09 | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| | 太和 | | | 1/3/4 | -4 | 05 | +11 | 09 | | | | | |
| 86 | 美孚 | | | 2/3/2 | -5 | 02 | +7 | S02 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| | 黃泥頭 | | | 1/4/2 | -5 | 02 | +7 | S02 | | | | | |
| 6C | 美孚 | | | 5/6/2 | -12 | S04 | +4 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| | 九龍城碼頭 | | | 3/10/2 | -12 | S04 | +4 | 06 | | | | | |

Illustration by Examples – Delay of Arrival + Departure Regulation

ROM System Proposal Control Center Operation

➔ After the BC has finished the trip and presents the driver CSC card, the system will prompt the BC to present the driver card again in 2 minutes

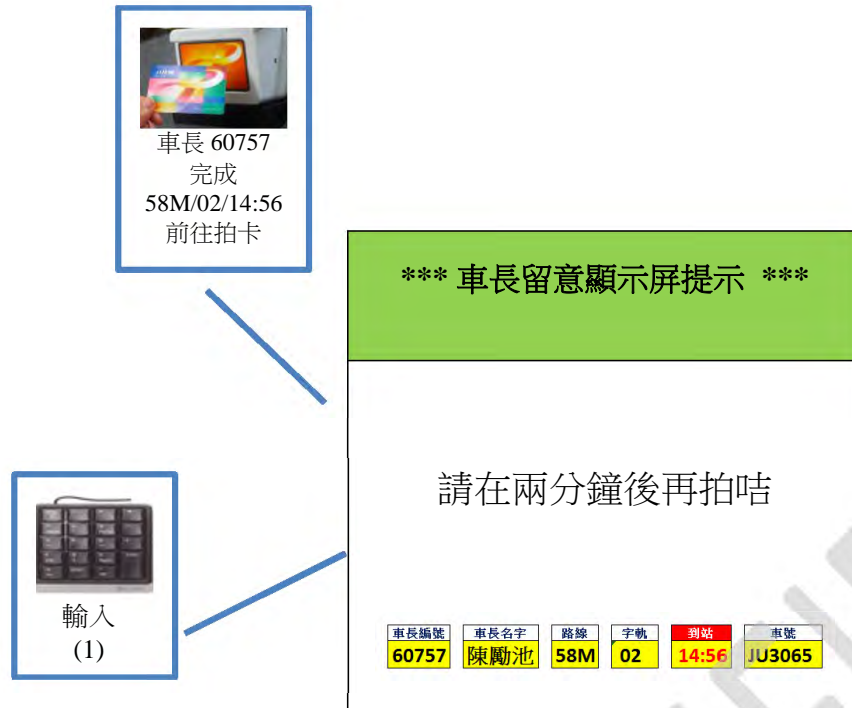


Illustration by Examples – Delay of Arrival + Departure Regulation

ROM System Proposal Control Center Operation

→ Departures affected will have the scheduled departure time displayed in red

日期:
20-08-2014

時間:
99:99 - 99:99

路線: 方向:

58M 往良景 ✓

58M 往葵芳 ✓

58P 往良景

58P 往葵芳

59M 往屯碼

59M 往荃鐘

車牌:

JU3065

NA8693

KL1584

HP4367

HK5581

PB1632

車長:

77425

6628

65138

72161

1834

調整班次 (F12)

排序: 車輛 / 車長 / 時間

| 站號 | 車輛 | 車輛編號 | 車長 | 車長編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|----|--------|-------------|-------|-----------|-------|-----------|-------|-------|------|-------|-----|----|-------|-------|--------|------|------|--------|
| 8M | JU3065 | 58M/02 | 60757 | 58M/02/早 | 60757 | 58M/02/早 | 13:45 | 13:47 | 0:02 | 14:39 | | | 葵芳鐵路站 | 良景邨 | 5 | | | 5 |
| 8M | KP7401 | 58M/16 | 71496 | 58M/16/早 | 71496 | 58M/16/早 | 13:50 | 13:50 | 0:00 | 14:44 | | | 葵芳鐵路站 | 良景邨 | 5 | | | |
| 8M | JS7054 | 58M/04 (廠) | 1548 | 58M/04/早 | 1548 | 58M/04/早 | 13:54 | 13:54 | 0:00 | 14:14 | | | 良景邨 | 屯門南廠 | - | | | |
| 8M | KS709 | 58M/96 | 21855 | 58M/96/早 | 1611 | 58M/04/夜 | 13:54 | 13:54 | 0:00 | 14:48 | | | 良景邨 | 葵芳鐵路站 | 9 | | | |
| 8M | KV6817 | 58M/03 | 53679 | 58M/L01/夜 | 53679 | 58M/L01/夜 | 14:00 | 14:00 | 0:00 | 14:54 | | | 葵芳鐵路站 | 良景邨 | 10 | | | |
| 8M | KU8269 | 58M/13 | 60937 | 58M/13/早 | 64088 | 58M/06/夜 | 14:02 | 14:02 | 0:00 | 14:56 | | | 良景邨 | 葵芳鐵路站 | 8 | | | |
| 8M | KC7617 | 58M/511 (廠) | 60804 | 58M/10/早 | 60804 | 58M/10/早 | 14:04 | 14:04 | 0:00 | 14:24 | | | 良景邨 | 屯門南廠 | - | | | |
| 8M | JV6725 | 58M/08 | 65489 | 58M/08/早 | 65489 | 58M/08/早 | 14:10 | 14:10 | 0:00 | 15:04 | | | 葵芳鐵路站 | 良景邨 | 10 | | | |
| 8M | 欠車 | 960/13 | - | - | 67882 | 960/13/早 | 14:19 | 14:19 | 0:00 | 15:13 | | | 良景邨 | 葵芳鐵路站 | 17 | | | |
| 8M | KU2052 | 58M/10 | 1624 | 58M/L02/夜 | 1624 | 58M/L02/夜 | 14:20 | 14:21 | 0:01 | 15:14 | | | 葵芳鐵路站 | 良景邨 | 10 | | | |
| 8M | JV7191 | 58M/11 | 欠人 | 58M/14/早 | 72460 | 58M/07/早 | 14:28 | 14:28 | 0:00 | 15:22 | | | 良景邨 | 葵芳鐵路站 | 26 | | | |
| 8M | JT1030 | 58M/15 | 64381 | 58M/15/早 | 64381 | 58M/15/早 | 14:30 | 14:30 | 0:00 | 15:24 | | | 葵芳鐵路站 | 良景邨 | 10 | | | |
| 8M | JT1196 | 58M/S13 (廠) | 78464 | 58M/S13/早 | 87684 | 58M/S14/早 | 14:34 | 14:34 | 0:00 | 14:44 | | | 屯門南廠 | 良景邨 | - | | | |
| 8M | 欠車 | 58M/07 (廠) | 71306 | 58M/11/早 | 71306 | 58M/11/早 | 14:34 | 14:34 | 0:00 | 14:54 | | | 良景邨 | 屯門南廠 | - | | | |
| 8M | KC3551 | 58M/09 | 60009 | 58M/09/早 | 73087 | 58M/05/夜 | 14:36 | 14:36 | 0:00 | 15:30 | | | 良景邨 | 葵芳鐵路站 | 8 | | | |
| 8M | JS7632 | 58M/06 | 4801 | 58M/03/夜 | 4801 | 58M/03/夜 | 14:40 | 14:40 | 0:00 | 15:34 | | | 葵芳鐵路站 | 良景邨 | 10 | | | |
| 8M | JT1196 | 58M/S13 | 87684 | 58M/S14/早 | 87684 | 58M/S14/早 | 14:44 | 14:44 | 0:00 | 15:38 | | | 良景邨 | 葵芳鐵路站 | 8 | | | |
| 8M | JV6814 | 58M/12 | 62918 | 58M/12/早 | 62918 | 58M/12/早 | 14:50 | 14:50 | 0:00 | 15:44 | | | 葵芳鐵路站 | 良景邨 | 10 | | | |
| 8M | JU3065 | 58M/02 | 60757 | 58M/02/早 | 73168 | 58M/07/夜 | 14:52 | 14:52 | 0:00 | 15:46 | | | 良景邨 | 葵芳鐵路站 | 8 | | | |
| 8M | KV6817 | 58M/03 (廠) | 53679 | 58M/L01/夜 | 53679 | 58M/L01/夜 | 14:54 | 14:54 | 0:00 | 15:14 | | | 良景邨 | 屯門南廠 | - | | | |
| 8M | HJ7491 | 58M/S03 (廠) | 1180 | 58M/S03/早 | 1180 | 58M/S03/早 | 14:58 | 14:58 | 0:00 | 15:14 | | | 屯門南廠 | 良景邨 | - | | | |
| 8M | KP7401 | 58M/16 | 71496 | 58M/16/早 | 1905 | 58M/08/夜 | 14:56 | 14:56 | 0:00 | 15:14 | | | 良景邨 | 葵芳鐵路站 | 4 | | | |
| 8M | KU7538 | 58M/14 | 70819 | 58M/02/夜 | 70819 | 58M/02/夜 | 15:00 | 15:00 | 0:00 | 15:14 | | | 葵芳鐵路站 | 良景邨 | 10 | | | |
| 8M | KS709 | 58M/96 | 1611 | 58M/04/夜 | 1611 | 58M/04/夜 | 15:07 | 15:07 | 0:00 | 15:14 | | | 葵芳鐵路站 | 良景邨 | 7 | | | |
| 8M | HJ7491 | 58M/S03 | 1180 | 58M/S03/早 | 1180 | 58M/S03/早 | 15:08 | 15:08 | 0:00 | 15:14 | | | 良景邨 | 葵芳鐵路站 | 12 | | | |
| 8M | KU2052 | 58M/10 (廠) | 1624 | 58M/L02/夜 | 1624 | 58M/L02/夜 | 15:14 | 15:14 | 0:00 | 15:14 | | | 良景邨 | 良景邨 | - | | | |
| 8M | HS1275 | 58M/S04 (廠) | 69551 | 58M/S04/早 | 69551 | 58M/S04/早 | 15:14 | 15:14 | 0:00 | 15:24 | | | 屯門南廠 | 良景邨 | - | | | |
| 8M | KU8269 | 58M/13 | 64088 | 58M/06/夜 | 64088 | 58M/06/夜 | 15:14 | 15:14 | 0:00 | 16:08 | | | 葵芳鐵路站 | 良景邨 | 7 | | | |
| 8M | JV6725 | 58M/08 | 65489 | 58M/08/早 | 53437 | 58M/L04/夜 | 15:16 | 15:16 | 0:00 | 16:10 | | | 良景邨 | 葵芳鐵路站 | 8 | | | |
| 8M | JT1030 | 58M/15 (廠) | 64381 | 58M/15/早 | 64381 | 58M/15/早 | 15:24 | 15:24 | 0:00 | 15:44 | | | 良景邨 | 屯門南廠 | - | | | |
| 8M | HS1275 | 58M/S04 | 69551 | 58M/S04/早 | 69551 | 58M/S04/早 | 15:24 | 15:24 | 0:00 | 16:18 | | | 良景邨 | 葵芳鐵路站 | 8 | | | |
| 8M | RZ5946 | 960/13 | 67882 | 960/13/早 | 67882 | 960/13/早 | 15:28 | 15:28 | 0:00 | 16:22 | | | 葵芳鐵路站 | 良景邨 | 14 | | | |
| 8M | JU2409 | 58M/01 (廠) | 66187 | 58M/01/早 | NULL | 58M/96/夜 | 15:30 | 15:30 | 0:00 | 15:40 | | | 屯門南廠 | 良景邨 | - | | | |
| 8M | KH3995 | 58M/S05 | 78429 | 58M/S05/早 | 78429 | 58M/S05/早 | 15:32 | 15:32 | 0:00 | 16:26 | | | 良景邨 | 葵芳鐵路站 | 8 | | | |
| 8M | JS7632 | 58M/06 (廠) | 4801 | 58M/03/夜 | 4801 | 58M/03/夜 | 15:34 | 15:34 | 0:00 | 15:54 | | | 良景邨 | 屯門南廠 | - | | | |

因行車過時而未能準時開出之班次

→ 路線出車率:

→ 車輛資料:

↓ 車長資料:

車長: 60757 XXX (月薪)

崗位: 58M/02/早

用膳時間: 99:99 – 99:99

↓ 事件資料:

行車過時:

崗位: 58M/02

編定開出時間: 13:45

實際到達時間: -

遲到原因:

→ 統計資料:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 行車過時 | 58M | 02 | 60757 | JU3065 | 13:45 | 14:45 | | 31653 | | | | | 58M | 02 | 14:52 | 58M | 02 | 14:52 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Illustration by Examples – Delay of Arrival + Departure Regulation

ROM System Proposal Control Center Operation

➔ Departure regulation is selected and the departures with different destinations are sorted separately

日期:
20-08-2014

時間:
99:99 - 99:99

路線:
58M
58M
58P
58P
59M
59M

方向:
往良景
往葵芳
往良景
往葵芳
往屯碼
往荃灣

車牌:
JU3065
NA8693
KL1584
HP4367
HK5581
PB1632

車長:
77425
6628
65138
72161
1834

| 路線 | 車輛 | 車輛崗位 | 載來車長 | 車長崗位 | 載走車長 | 車長崗位 | 同行車長 | 編定開車 | 實際開車 | 提早 | 編定到達 | 已抵達中途站 | 預計尚餘 | 已到達 | 已拍哈 | 起點 | 中途起點站 | 終點 | 聯絡OCC | 班次 |
|----|--------|-------------|-------|-----------|-------|-----------|------|-------|-------|------|-------|--------|------|-----|-----|------|-------|-----|-------|----|
| 8M | JV7191 | 58M/11 | 欠人 | 58M/14/早 | 72460 | 58M/07/早 | | 14:28 | 14:28 | 0:00 | 15:22 | | | | | 良景邨 | 葵芳鐵路站 | 良景邨 | | 26 |
| 8M | JT1196 | 58M/S13 (廠) | 78464 | 58M/S13/早 | 87684 | 58M/S14/早 | | 14:34 | 14:34 | 0:00 | 14:44 | | | | | 屯門南廠 | 良景邨 | 良景邨 | | - |
| 8M | 欠車 | 58M/07 (廠) | 71306 | 58M/11/早 | 71306 | 58M/11/早 | | 14:34 | 14:34 | 0:00 | 14:54 | | | | | 良景邨 | 屯門南廠 | 良景邨 | | - |
| 8M | KC3551 | 58M/09 | 60009 | 58M/09/早 | 73087 | 58M/05/夜 | | 14:36 | 14:36 | 0:00 | 15:30 | | | | | 良景邨 | 葵芳鐵路站 | 良景邨 | | 8 |
| 8M | JT1196 | 58M/S13 | 87684 | 58M/S14/早 | 87684 | 58M/S14/早 | | 14:44 | 14:44 | 0:00 | 15:38 | | | | | 良景邨 | 葵芳鐵路站 | 良景邨 | | 8 |
| 8M | JU3065 | 58M/02 | 60757 | 58M/02/早 | 73168 | 58M/07/夜 | | 14:52 | | | 15:46 | | | | | 良景邨 | 葵芳鐵路站 | 良景邨 | | 8 |
| 8M | KV6817 | 58M/03 (廠) | 53679 | 58M/L01/夜 | 53679 | 58M/L01/夜 | | 14:54 | | | 15:14 | | | | | 良景邨 | 屯門南廠 | 良景邨 | | - |
| 8M | HJ7491 | 58M/S03 (廠) | 1180 | 58M/S03/早 | 1180 | 58M/S03/早 | | 14:58 | | | 15:08 | | | | | 屯門南廠 | 良景邨 | 良景邨 | | - |
| 8M | KP7401 | 58M/16 | 71496 | 58M/16/早 | 1905 | 58M/08/夜 | | 14:56 | | | 15:54 | | | | | 良景邨 | 葵芳鐵路站 | 良景邨 | | 4 |
| 8M | HJ7491 | 58M/S03 | 1180 | 58M/S03/早 | 1180 | 58M/S03/早 | | 15:08 | | | 16:02 | | | | | 良景邨 | 葵芳鐵路站 | 良景邨 | | 12 |
| 8M | KJ2052 | 58M/10 (廠) | 1624 | 58M/L02/夜 | 1624 | 58M/L02/夜 | | 15:14 | | | 15:14 | | | | | 良景邨 | 良景邨 | 良景邨 | | - |
| 8M | HS1275 | 58M/S04 (廠) | 69551 | 58M/S04/早 | 69551 | 58M/S04/早 | | 15:14 | | | 15:24 | | | | | 屯門南廠 | 良景邨 | 良景邨 | | - |
| 8M | JV6725 | 58M/08 | 65489 | 58M/08/早 | 53437 | 58M/L04/夜 | | 15:16 | | | 16:10 | | | | | 良景邨 | 葵芳鐵路站 | 良景邨 | | 8 |
| 8M | JT1030 | 58M/15 (廠) | 64381 | 58M/15/早 | 64381 | 58M/15/早 | | 15:24 | | | 15:44 | | | | | 良景邨 | 屯門南廠 | 良景邨 | | - |
| 8M | HS1275 | 58M/S04 | 69551 | 58M/S04/早 | 69551 | 58M/S04/早 | | 15:24 | | | 16:18 | | | | | 良景邨 | 葵芳鐵路站 | 良景邨 | | 8 |
| 8M | JU2409 | 58M/01 (廠) | 66187 | 58M/01/早 | NULL | 58M/96/夜 | | 15:30 | | | 15:40 | | | | | 屯門南廠 | 良景邨 | 良景邨 | | - |
| 8M | KH3995 | 58M/S05 | 78429 | 58M/S05/早 | 78429 | 58M/S05/早 | | 15:32 | | | 16:26 | | | | | 良景邨 | 葵芳鐵路站 | 良景邨 | | 8 |

| 路線 | 車輛 | 車輛崗位 | 載來車長 | 車長崗位 | 載走車長 | 車長崗位 | 同行車長 | 編定開車 | 實際開車 | 提早 | 編定到達 | 已抵達中途站 | 預計尚餘 | 已到達 | 已拍哈 | 起點 | 中途起點站 | 終點 | 聯絡OCC | 班次 |
|----|--------|---------|-------|-----------|-------|-----------|------|-------|-------|------|-------|--------|------|-----|-----|-------|-------|-----|-------|----|
| 8M | KJ2052 | 58M/10 | 1624 | 58M/L02/夜 | 1624 | 58M/L02/夜 | | 14:20 | 14:21 | 0:01 | 15:14 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | JT1030 | 58M/15 | 64381 | 58M/15/早 | 64381 | 58M/15/早 | | 14:30 | 14:30 | 0:00 | 15:24 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | JS7632 | 58M/06 | 4801 | 58M/03/夜 | 4801 | 58M/03/夜 | | 14:40 | 14:40 | 0:00 | 15:34 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | JV6814 | 58M/12 | 62918 | 58M/12/早 | 62918 | 58M/12/早 | | 14:50 | 14:50 | 0:00 | 15:44 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | KU7538 | 58M/14 | 70819 | 58M/02/夜 | 70819 | 58M/02/夜 | | 15:00 | 15:00 | 0:00 | 15:54 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | KS 709 | 58M/96 | 1611 | 58M/04/夜 | 1611 | 58M/04/夜 | | 15:07 | 15:07 | 0:00 | 16:01 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | KU8269 | 58M/13 | 64088 | 58M/06/夜 | 64088 | 58M/06/夜 | | 15:14 | 15:14 | 0:00 | 16:08 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | RZ5946 | 960/13 | 67882 | 960/13/早 | 67882 | 960/13/早 | | 15:28 | 15:28 | 0:00 | 16:22 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | JV7191 | 58M/11 | 72460 | 58M/07/早 | 72460 | 58M/07/早 | | 15:35 | 15:35 | 0:00 | 16:33 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | KC3551 | 58M/09 | 73087 | 58M/05/夜 | 73087 | 58M/05/夜 | | 15:42 | 15:42 | 0:00 | 16:40 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | JT1196 | 58M/S13 | 87684 | 58M/S14/早 | 87684 | 58M/S14/早 | | 15:49 | 15:49 | 0:00 | 16:47 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | 欠車 | 58M/02 | 73168 | 58M/07/夜 | 73168 | 58M/07/夜 | | 15:56 | 15:56 | 0:00 | 16:54 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | KP7401 | 58M/16 | 1905 | 58M/08/夜 | 1905 | 58M/08/夜 | | 16:03 | 16:03 | 0:00 | 17:06 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | HJ7491 | 58M/S03 | 1180 | 58M/S03/早 | 1180 | 58M/S03/早 | | 16:10 | 16:10 | 0:00 | 17:13 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | JV6725 | 58M/08 | 53437 | 58M/L04/夜 | 53437 | 58M/L04/夜 | | 16:17 | 16:17 | 0:00 | 17:20 | | | | | 葵芳鐵路站 | | 良景邨 | | |
| 8M | HS1275 | 58M/S04 | 69551 | 58M/S04/早 | 69551 | 58M/S04/早 | | 16:25 | 16:25 | 0:00 | 17:28 | | | | | 葵芳鐵路站 | | 良景邨 | | |

☒ 不同方向班次分開顯示
☒ 只顯示班次
 提前欠人/欠車班次之後一班車開車時間。
 適用於 [:] 至 [:] 開出之班次
 提前欠人/欠車班次之後
☒ 班車的開車時間
☐ 所有班車的開車時間

執行

套用以往調整後的行車時間:
 • 58M 平日收 7 車(10 月 23 日星期四)
 • 58M 平日收 7 車(10 月 6 日星期一)

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 行車過時 | 58M | 02 | 60757 | JU3065 | 13:45 | 14:45 | | 31653 | | | | | 58M | 02 | 14:52 | 58M | 02 | 14:52 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Illustration by Examples – Delay of Arrival + Departure Regulation

➔ Manually change the departure time and location of mid-way departure

ROM System Proposal Control Center Operation

日期:
20-08-2014

時間:
99:99 - 99:99

路線: 58M
方向: 往良景

車牌:
JU3065
NA8693
KL1584
HP4367
HK5581
PB1632

車長:
77425
6628
65138
72161
1834

| 路線 | 車輛 | 車輛崗位 | 載來車長 | 車長崗位 | 載走車長 | 車長崗位 | 同行車長 | 編定開車 | 實際開車 | 提早 | 編定到達 | 已抵達中途站 | 預計尚餘 | 起點 | 中途起載站 | 終點 | 聯絡OCC | 班次 |
|-----|--------|-------------|-------|-----------|-------|-----------|------|-------|-------|------|-------|--------|------|------|-------|-----|-------|----|
| 58M | KU8269 | 58M/13 | 60937 | 58M/13/早 | 64088 | 58M/06/夜 | | 14:02 | 14:02 | 0:00 | 14:56 | | | 良景部 | 葵芳鐵路站 | 良景部 | 8 | |
| 58M | KC7617 | 58M/S11 (廠) | 60804 | 58M/10/早 | 60804 | 58M/10/早 | | 14:04 | 14:04 | 0:00 | 14:24 | | | 良景部 | 屯門南廠 | 良景部 | - | |
| 58M | 欠車 | 960/13 | | | 67882 | 960/13/早 | | 14:19 | 14:19 | 0:00 | 15:13 | | | 良景部 | 葵芳鐵路站 | 良景部 | 17 | |
| 58M | JV7191 | 58M/11 | 欠人 | 58M/14/早 | 72460 | 58M/07/早 | | 14:28 | 14:28 | 0:00 | 15:22 | | | 良景部 | 葵芳鐵路站 | 良景部 | 26 | |
| 58M | JT1196 | 58M/S13 (廠) | 78464 | 58M/S13/早 | 87684 | 58M/S14/早 | | 14:34 | 14:34 | 0:00 | 14:44 | | | 屯門南廠 | 良景部 | 良景部 | - | |
| 58M | 欠車 | 58M/07 (廠) | 71306 | 58M/11/早 | 71306 | 58M/11/早 | | 14:34 | 14:34 | 0:00 | 14:54 | | | 良景部 | 屯門南廠 | 良景部 | - | |
| 58M | KC3551 | 58M/09 | 60009 | 58M/09/早 | 73087 | 58M/05/夜 | | 14:36 | 14:36 | 0:00 | 15:30 | | | 良景部 | 葵芳鐵路站 | 良景部 | 8 | |
| 58M | JT1196 | 58M/S13 | 87684 | 58M/S14/早 | 87684 | 58M/S14/早 | | 14:44 | 14:44 | 0:00 | 15:38 | | | 良景部 | 葵芳鐵路站 | 良景部 | 8 | |
| 58M | JU3065 | 58M/02 | 60757 | 58M/02/早 | 73168 | 58M/07/夜 | | 15:00 | 15:00 | 0:00 | 15:46 | | | 良景部 | 葵芳鐵路站 | 良景部 | 16 | |
| 58M | KV6817 | 58M/03 (廠) | 53679 | 58M/L01/夜 | 53679 | 58M/L01/夜 | | 14:54 | 14:54 | 0:00 | 15:14 | | | 良景部 | 屯門南廠 | 良景部 | - | |
| 58M | HJ7491 | 58M/S03 (廠) | 1180 | 58M/S03/早 | 1180 | 58M/S03/早 | | 14:58 | 14:58 | 0:00 | 15:08 | | | 屯門南廠 | 良景部 | 良景部 | - | |
| 58M | KP7401 | 58M/16 | 71496 | 58M/16/早 | 1905 | 58M/08/夜 | | 15:00 | 15:00 | 0:00 | 15:54 | | | 良景部 | 葵芳鐵路站 | 良景部 | 0 | |
| 58M | HJ7491 | 58M/S03 | 1180 | 58M/S03/早 | 1180 | 58M/S03/早 | | 15:08 | 15:08 | 0:00 | 16:02 | | | 良景部 | 葵芳鐵路站 | 良景部 | 8 | |
| 58M | KU2052 | 58M/10 (廠) | 1624 | 58M/L02/夜 | 1624 | 58M/L02/夜 | | 15:14 | 15:14 | 0:00 | 15:14 | | | 良景部 | 良景部 | 良景部 | - | |
| 58M | HS1275 | 58M/S04 (廠) | 69551 | 58M/S04/早 | 69551 | 58M/S04/早 | | 15:14 | 15:14 | 0:00 | 15:24 | | | 屯門南廠 | 良景部 | 良景部 | - | |
| 58M | JV6725 | 58M/08 | 65489 | 58M/08/早 | 53437 | 58M/L04/夜 | | 15:16 | 15:16 | 0:00 | 16:10 | | | 良景部 | 葵芳鐵路站 | 良景部 | 8 | |
| 58M | JT1030 | 58M/15 (廠) | 64381 | 58M/15/早 | 64381 | 58M/15/早 | | 15:24 | 15:24 | 0:00 | 15:44 | | | 良景部 | 屯門南廠 | 良景部 | - | |

| 路線 | 車輛 | 車輛崗位 | 載來車長 | 車長崗位 | 載走車長 | 車長崗位 | 同行車長 | 編定開車 | 實際開車 | 提早 | 編定到達 | 已抵達中途站 | 預計尚餘 | 起點 | 中途起載站 | 終點 | 聯絡OCC | 班次 |
|-----|--------|---------|-------|-----------|-------|-----------|------|-------|-------|------|-------|--------|------|-------|-------|-----|-------|----|
| 58M | KJ2052 | 58M/10 | 1624 | 58M/L02/夜 | 1624 | 58M/L02/夜 | | 14:20 | 14:21 | 0:01 | 15:14 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | JT1030 | 58M/15 | 64381 | 58M/15/早 | 64381 | 58M/15/早 | | 14:30 | 14:30 | 0:00 | 15:24 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | JS7632 | 58M/06 | 4801 | 58M/03/夜 | 4801 | 58M/03/夜 | | 14:40 | 14:40 | 0:00 | 15:34 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | JV6814 | 58M/12 | 62918 | 58M/12/早 | 62918 | 58M/12/早 | | 14:50 | 14:50 | 0:00 | 15:44 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | KU7538 | 58M/14 | 70819 | 58M/02/夜 | 70819 | 58M/02/夜 | | 15:00 | 15:00 | 0:00 | 15:54 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | KS 709 | 58M/96 | 1611 | 58M/04/夜 | 1611 | 58M/04/夜 | | 15:07 | 15:07 | 0:00 | 16:01 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | KU8269 | 58M/13 | 64088 | 58M/06/夜 | 64088 | 58M/06/夜 | | 15:14 | 15:14 | 0:00 | 16:08 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | RZ5946 | 960/13 | 67882 | 960/13/早 | 67882 | 960/13/早 | | 15:28 | 15:28 | 0:00 | 16:22 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | JV7191 | 58M/11 | 72460 | 58M/07/早 | 72460 | 58M/07/早 | | 15:35 | 15:35 | 0:00 | 16:33 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | KC3551 | 58M/09 | 73087 | 58M/05/夜 | 73087 | 58M/05/夜 | | 15:42 | 15:42 | 0:00 | 16:40 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | JT1196 | 58M/S13 | 87684 | 58M/S14/早 | 87684 | 58M/S14/早 | | 15:49 | 15:49 | 0:00 | 16:47 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | 欠車 | 58M/02 | 73168 | 58M/07/夜 | 73168 | 58M/07/夜 | | 15:56 | 15:56 | 0:00 | 16:54 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | KP7401 | 58M/16 | 1905 | 58M/08/夜 | 1905 | 58M/08/夜 | | 16:03 | 16:03 | 0:00 | 17:06 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | HJ7491 | 58M/S03 | 1180 | 58M/S03/早 | 1180 | 58M/S03/早 | | 16:10 | 16:10 | 0:00 | 17:13 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | JV6725 | 58M/08 | 53437 | 58M/L04/夜 | 53437 | 58M/L04/夜 | | 16:17 | 16:17 | 0:00 | 17:20 | | | 葵芳鐵路站 | | 良景部 | | |
| 58M | HS1275 | 58M/S04 | 69551 | 58M/S04/早 | 69551 | 58M/S04/早 | | 16:25 | 16:25 | 0:00 | 17:28 | | | 葵芳鐵路站 | | 良景部 | | |

☒ 不同方向班次分開顯示

☒ 只顯示班次

提前欠人/欠車班次之後一班車開車時間。

適用於 [] 至 [] 開出之班次

提前欠人/欠車班次之後

☒ 班車的開車時間

☐ 所有班車的開車時間

執行

套用以往調整後的行車時間:

- 58M 平日收 7 車(10 月 23 日星期四)
- 58M 平日收 7 車(10 月 6 日星期一)

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 行車過時 | 58M | 02 | 60757 | JU3065 | 13:45 | 14:45 | | 31653 | | | | | 58M | 02 | 14:52 | 58M | 02 | 14:52 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Illustration by Examples – Delay of Arrival + Departure Regulation

➔ Modified departure time and location of mid-way departure

ROM System Proposal Control Center Operation

日期:

20-08-2014

時間:

99:99 - 99:99

路線:

58M

方向:

往良景

車牌:

JU3065

車長:

77425

載來

載走

同行

編定

實際

提早

編定

已抵達中途站

預計尚餘

8線

車輛

車輛崗位

載來車長

車長崗位

載走車長

車長崗位

車長

開車

開車

押後

到達

站名

時間

車程(分鐘)

已到達

已拍咗

起點

中途起載站

終點

聯絡OCC

班次

8M

KU8269

58M/13

60937

58M/13/早

64088

58M/06/夜

14:02

14:02

0:00

14:56

良景部

葵芳鐵路站

8

8M

KC7617

58M/S11 (廠)

60804

58M/10/早

60804

58M/10/早

14:04

良景部

屯門南廠

-

8M

欠車

960/13

-

-

67882

960/13/早

14:19

良景部

葵芳鐵路站

17

8M

JV7191

58M/11

欠人

58M/14/早

72460

58M/07/早

14:28

良景部

葵芳鐵路站

26

8M

JT1196

58M/S13 (廠)

78464

58M/S13/早

87684

58M/S14/早

14:34

14:34

14:44

屯門南廠

良景部

-

8M

欠車

58M/07 (廠)

71306

58M/11/早

71306

58M/11/早

14:34

14:34

0:00

14:54

良景部

屯門南廠

-

8M

KC3551

58M/09

60009

58M/09/早

73087

58M/05/夜

14:36

0:00

15:30

良景部

葵芳鐵路站

8

8M

JT1196

58M/S13

87684

58M/S14/早

87684

58M/S14/早

14:44

14:44

0:00

15:38

良景部

葵芳鐵路站

8

8M

JU3065

58M/02

60757

58M/02/早

73168

58M/07/夜

15:00

15:46

良景部

葵芳鐵路站

16

8M

KV6817

58M/03 (廠)

53679

58M/L01/夜

53679

58M/L01/夜

14:54

15:14

良景部

屯門南廠

-

8M

HJ7491

58M/S03 (廠)

1180

58M/S03/早

1180

58M/S03/早

14:58

15:08

良景部

葵芳鐵路站

8

8M

KP7401

58M/16

71496

58M/16/早

1905

58M/08/夜

15:00

15:54

良景部

葵芳鐵路站

0

8M

HJ7491

58M/S03

1180

58M/S03/早

1180

58M/S03/早

15:08

16:02

良景部

葵芳鐵路站

8

8M

KJ2052

58M/10 (廠)

1624

58M/L02/夜

1624

58M/L02/夜

15:14

15:14

良景部

良景部

-

8M

HS1275

58M/S04 (廠)

69551

58M/S04/早

69551

58M/S04/早

15:14

15:24

良景部

葵芳鐵路站

8

8M

JV6725

58M/08

65489

58M/08/早

53437

58M/L04/夜

15:16

16:10

良景部

葵芳鐵路站

8

8M

JT1030

58M/15 (廠)

64381

58M/15/早

64381

58M/15/早

15:24

15:44

良景部

屯門南廠

-

載來

載走

同行

編定

實際

提早

編定

已抵達中途站

預計尚餘

8線

車輛

車輛崗位

載來車長

車長崗位

載走車長

車長崗位

車長

開車

開車

押後

到達

站名

時間

車程(分鐘)

已到達

已拍咗

起點

中途起載站

終點

聯絡OCC

班次

8M

KJ2052

58M/10

1624

58M/L02/夜

1624

58M/L02/夜

14:20

14:21

0:01

15:14

葵芳鐵路站

良景部

8M

JT1030

58M/15

64381

58M/15/早

64381

58M/15/早

14:30

14:30

0:00

15:24

葵芳鐵路站

良景部

8M

JS7632

58M/06

4801

58M/03/夜

4801

58M/03/夜

14:40

14:40

0:00

15:34

葵芳鐵路站

良景部

8M

JV6814

58M/12

62918

58M/12/早

62918

58M/12/早

14:50

14:50

0:00

15:44

葵芳鐵路站

良景部

8M

KU7538

58M/14

70819

58M/02/夜

70819

58M/02/夜

15:00

15:00

0:00

15:54

葵芳鐵路站

良景部

8M

KS 709

58M/96

1611

58M/04/夜

1611

58M/04/夜

15:07

15:07

0:00

16:01

葵芳鐵路站

良景部

8M

KU8269

58M/13

64088

58M/06/夜

64088

58M/06/夜

15:14

15:14

0:00

16:08

葵芳鐵路站

良景部

8M

RZ5946

960/13

67882

960/13/早

67882

960/13/早

15:28

15:28

0:00

16:22

葵芳鐵路站

良景部

8M

JV7191

58M/11

72460

58M/07/早

72460

58M/07/早

15:35

15:35

0:00

16:33

葵芳鐵路站

良景部

8M

KC3551

58M/09

73087

58M/05/夜

73087

58M/05/夜

15:42

15:42

0:00

16:40

葵芳鐵路站

良景部

8M

JT1196

58M/S13

87684

58M/S14/早

87684

58M/S14/早

15:49

15:49

0:00

16:47

葵芳鐵路站

良景部

8M

欠車

58M/02

73168

58M/07/夜

73168

58M/07/夜

15:56

15:56

0:00

16:54

葵芳鐵路站

良景部

8M

KP7401

58M/16

1905

58M/08/夜

1905

58M/08/夜

16:03

16:03

0:00

17:06

葵芳鐵路站

良景部

8M

HJ7491

58M/S03

1180

58M/S03/早

1180

58M/S03/早

16:10

16:10

0:00

17:13

葵芳鐵路站

良景部

8M

JV6725

58M/08

53437

58M/L04/夜

53437

58M/L04/夜

16:17

16:17

0:00

17:20

葵芳鐵路站

良景部

8M

HS1275

58M/S04

69551

58M/S04/早

69551

58M/S04/早

16:25

16:25

0:00

17:28

葵芳鐵路站

良景部

已更改開車時間

已設定中途起載站

紅橋

☒ 不同方向班次分開顯示

☒ 只顯示班次

提前欠人/欠車班次之後一班車開車時間。

適用於 [:] 至 [:] 開出之班次

提前欠人/欠車班次之後

☐ 班車的開車時間

☐ 所有班車的開車時間

執行

套用以往調整後的行車時間:

- 58M 平日收 7 車(10 月 23 日星期四)
- 58M 平日收 7 車(10 月 6 日星期一)

調度員事件板:

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 行車過時 | 58M | 02 | 60757 | JU3065 | 13:45 | 14:45 | | 31653 | | | | | 58M | 02 | 14:52 | 58M | 02 | 14:52 |
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | 64381 | HS 781 | 09:10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Illustration by Examples – Delay of Arrival + Departure Regulation

ROM System Proposal Control Center Operation

➔ When the BC presents the driver card again, information of next departure including departure time and location of mid-way departure will be shown

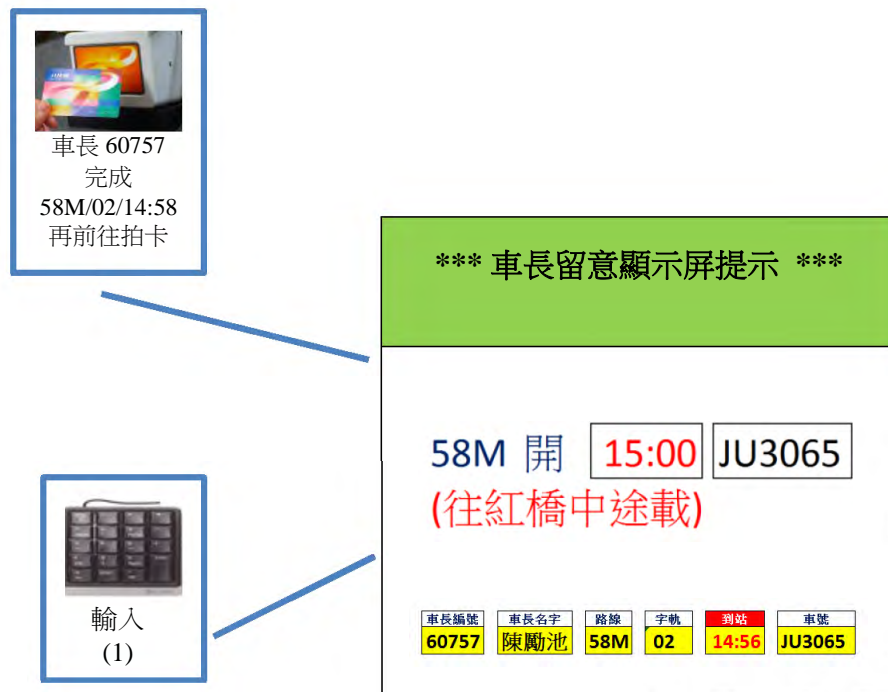


Illustration by Examples – Delay of Arrival + Departure Regulation

ROM System Proposal Control Center Operation

→ After the BC has presented the driver card and obtain the departure information, the incident will be removed

調度員: 張子良

事件狀況: 處理中/處理完畢/所有 ▼



系統時間: 2014-08-01 14:56:12

| 調度員 | 事件類別 | 路線 | 字軌 | 車長編號 | 車輛編號 | 開出時間 | 預計到達 | 實際到達 | 參考編號 | 行車概況 | 行車時間表 | 折線圖 | 地圖 | 受影路線 | 響班字軌 | 次(車)開出 | 受影路線 | 響班字軌 | 次(人)開出 |
|-----|-----------|------|----|-------|--------|-------|-------|-------|-------|------|-------|-----|----|------|------|--------|------|------|--------|
| 張子良 | 延遲抵達沒有原因 | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| 張子良 | 壞車 | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| 張子良 | 交通意外 | C39A | 05 | | | :38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| 張子良 | 行車過時 | C58M | 15 | | | :10 | 10:10 | 10:16 | 34218 | | | | | C58M | 15 | 10:13 | C59M | 06 | 10:13 |
| 張子良 | 失物處理 - 留後 | C43A | 08 | | | :00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

車長拍咗後事件會被移除

| 路線 | 往 | 遲 | 早 | -0/+ | 最長延誤 | | 最長提早 | | 本月累積失班率 | 當天累積失班率 | | | |
|-----|-------|---|---|--------|------|-----|------|-----|---------|--------------|--------------|--------------|--------------|
| | | | | | 分鐘 | 字軌 | 分鐘 | 字軌 | | 0500-1000 | 1000-1500 | 1500-2000 | 2000-0200 |
| 2A | 美孚 | | | 0/3/2 | -4 | 06 | +9 | L05 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| | 樂華 | | | 2/3/2 | -4 | 06 | +9 | L05 | | | | | |
| 6 | 美孚 | | | 2/8/0 | -9 | 03 | +5 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| | 荔枝角 | | | 3/6/2 | -9 | 03 | +5 | 07 | | | | | |
| 6D | 美孚 | | | 3/3/2 | -8 | 09 | +6 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| | 牛頭角 | | | 1/5/2 | -8 | 09 | +6 | 02 | | | | | |
| 6X | 中間道 | | | 0/4/1 | - | | +3 | 03 | 0 | 0/8 (0%) | - | - | - |
| 28 | 麼地道 | | | 1/6/2 | -4 | 05 | +6 | 01 | 1.34% | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) |
| | 麼地道 | | | 2/6/0 | -4 | 05 | +6 | 01 | | | | | |
| 38A | 美孚 | | | 0/4/0 | - | | - | | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| | 海濱花園 | | | 0/4/0 | - | | - | | | | | | |
| 72 | 長沙灣 | | | 3/5/1 | -4 | 05 | +11 | 09 | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| | 太和 | | | 1/3/4 | -4 | 05 | +11 | 09 | | | | | |
| 86 | 美孚 | | | 2/3/2 | -5 | 02 | +7 | S02 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| | 黃泥頭 | | | 1/4/2 | -5 | 02 | +7 | S02 | | | | | |
| 6C | 美孚 | | | 5/6/2 | -12 | S04 | +4 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| | 九龍城碼頭 | | | 3/10/2 | -12 | S04 | +4 | 06 | | | | | |
| 30 | 長沙灣 | | | 4/2/2 | -6 | 07 | +5 | 03 | 1.84% | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) |
| | 荃威花園 | | | 2/7/0 | -6 | 07 | +5 | 03 | | | | | |

Illustration by Examples –
Bus Breakdown + Redeployment

ROM System Proposal
Control Center Operation

8.1.1 – Handling bus breakdown + redeployment (route 6D)

- Dispatcher receives a call from bus captain 62564 that bus HY 754 broke down at 12:45.
- He presses the “phone” icon at the top right corner and a form appears for filling the details of the breakdown.

(Translation of the form in next page)

| |
|------------------|
| Dispatcher |
| Cheung Chi Leung |
| Cheung Chi Leung |
| Cheung Chi Leung |
| Cheung Chi Leung |
| Cheung Chi Leung |
| Cheung Chi Leung |

Dispatcher Status of the incident

System time: 2014-08-01 12:28:12
系統時間: 2014-08-01 12:28:12

調度員

張子良

張子良

張子良

張子良

張子良

車輛: 車長:

已記錄事故:

| 參考編號 | 時間 | 事件類別 | 路線 | 字軌 | 車輛 | 車長 | 資料補充 |
|------|----|------|----|----|----|----|------|
| | | | | | | | 編輯 |
| | | | | | | | 編輯 |
| | | | | | | | 編輯 |

[新增]事件類別: (壞車/交通意外/失物處理/其他事項)

車牌 時間 地點 ☐

路線 字軌 ☐

時間 往 車長 維修站 / 車廠

| 次(車) | 班次 | 次(人) |
|------|----|-------|
| 開出 | 字軌 | 開出 |
| D | 02 | 15:10 |
| C39A | 10 | 08:35 |
| C43A | 08 | 07:55 |
| -- | -- | -- |

| 1500-2000 | 2000-0200 |
|--------------|--------------|
| 2/59 (3.51%) | 2/59 (3.51%) |
| 1/51 (1.96%) | 1/51 (1.96%) |
| 0/39 (0%) | 0/39 (0%) |
| 2/47 (4.26%) | 2/47 (4.26%) |
| 1/8 (0%) | 1/8 (0%) |
| 1/29 (3.45%) | 1/29 (3.45%) |
| 0/36 (0%) | 0/36 (0%) |
| 3/71 (4.23%) | 3/71 (4.23%) |
| 2/24 (8.33%) | 2/24 (8.33%) |

Bus
Recorded incident

Captain

Search

| Reference number | Time | Type of incident | Route | Running number | Bus | Captain | Supplementary data |
|------------------|------|------------------|-------|----------------|-----|---------|--------------------|
| | | | | | | | Edit |
| | | | | | | | Edit |
| | | | | | | | Edit |

[Add] Type of incident

:

Bus broken

(Bus broken/traffic accident/Handling lost property/Other matters)

Add

New incident - Bus broken

Licence plate

Time

:

Location

Stop flag

Halfway

Time

:

For repair

Captain

Time

:

Captain for meal

To

:

Time

:

Captain off duty

Stop flag

Time

:

Captain to standby at stop

Bus

Time

:

Re-entering the route

Reversed/boarding midway

Service centre

Bus depot

Save

Cancel

**Illustration by Examples –
Bus Breakdown + Redeployment**

**ROM System Proposal
Control Center Operation**

➔ A new incident of type “bus breakdown” will be created in both incident board of OCC TV and dispatcher monitoring board

| Bus Operations Control Centre: Lai Chi Kok | | | | | | System time: 2014-08-01 09:34:12 | | |
|--|--|-------|----------------|----------------|------------|----------------------------------|------------|------------------|
| atcher | Type of incident | Route | Running number | Captain number | Bus number | Inputter | Input time | Reference number |
| Cheung Chi Leung | Bus breakdown | 6D | 02 | 62564 | HY754 | Cheung Chi Leung | 12:45:00 | 35216 |
| Lee Chiu | Staff unavailable | C 2A | 03 | 421 | GZ4853 | TOM | 08:45:20 | 31523 |
| Wong Tai Tung | Bus unavailable | | | 558 | KB4350 | Wong Tai Tung | 08:45:20 | 31513 |
| Ho Siu Ming | Not yet arrived Affecting future departure | | | | | | | |
| Cheung Chi Leung | Bus breakdown | C40 | 03 | 65318 | KW3187 | Lee Chiu | 09:18:05 | 31608 |
| Lee Chiu | Early leave of captain | C108 | 02 | 73493 | MM2038 | Ho Siu Ming | 08:12:16 | 31468 |
| Cheung Chi Leung | Traffic accident | C42A | 07 | 77231 | IK1583 | OCM | 09:12:06 | 31594 |
| Wong Tai Tung | Handling lost property – keep for future handling | C39A | 05 | 85047 | LM12168 | Wong Tai Tung | 07:45:20 | 31353 |
| Wong Tai Tung | Arrival will be delayed | C43A | 08 | 70524 | MK5518 | ROM | 07:50:10 | 31381 |
| Lee Chiu | Deviated from driving route | C 8A | 01 | 4155 | RJ6184 | | 09:32:47 | 31668 |
| Cheung Chi Leung | Late arrival without reason | C35A | 04 | 73914 | ND6181 | ROM: | 09:28:20 | 31618 |
| | | C46 | 05 | 68325 | KL6385 | ROM | 09:33:51 | 31675 |
| | | | | | | | | |
| | | | | | | : | | |
| | | | | | | : | | |
| | | | | | | | | |

Illustration by Examples –
Bus Breakdown + Redeployment

ROM System Proposal
Control Center Operation

→ A new incident of type “bus breakdown” being created to the dispatcher’s monitoring board

Dispatcher **Cheung Chi Leung** Status of the incident **In process/Unconfirmed/Completed/All**

Bus breakdown incident with additional staff

System time: 2014-08-01 05:00:00

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Bus broken | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Late arrival without reason | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| Cheung Chi Leung | Traffic accident | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31351 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |
| Cheung Chi Leung | Deviated from driving route | C35A | 04 | 73914 | ND6181 | -- | -- | | 31618 | | | | | -- | -- | -- | -- | -- | -- |

| Route | To | Late | Early | -/0/+ | Longest delay | | Longest ahead of time | | Accumulated this month | Cumulative same-day lost trips rate | | | |
|-------|-------------------------|------|-------|--------|---------------|----------------|-----------------------|----------------|------------------------|-------------------------------------|--------------|--------------|--------------|
| | | | | | Minutes | Running number | Minutes | Running number | | Lost trips rate | 0500-1000 | 1000-1500 | 1500-2000 |
| 2A | Mei Foo | | | 0/3/2 | 4 | 06 | 19 | 05 | | | | | |
| | Lok Wah | | | 2/3/2 | 4 | 06 | 19 | 05 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| 6 | Mei Foo | | | 2/8/0 | 9 | 03 | 15 | 07 | | | | | |
| | Lai Chi Kok | | | 3/5/2 | 9 | 03 | 15 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| 6D | Mei Foo | | | 3/3/2 | 8 | 09 | 16 | 02 | | | | | |
| | Ngau Tau Kok | | | 1/5/4 | 8 | 09 | 16 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| 6X | Middle Road | | | 0/4/1 | | | 13 | 03 | 0 | 0/8 (0%) | - | - | - |
| 28 | Mody Road | | | 1/0/2 | 4 | 05 | 16 | 01 | | | | | |
| | Mody Road | | | 2/6/0 | 4 | 05 | 16 | 01 | 1.34% | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) |
| 38A | Mei Foo | | | 0/4/0 | | | | | | | | | |
| | Riviera Gardens | | | 0/4/0 | | | | | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| 72 | Cheung Sha Wan | | | 3/5/1 | 4 | 05 | 11 | 09 | | | | | |
| | Tai Wo | | | 1/3/2 | 4 | 05 | 11 | 09 | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| 86 | Mei Foo | | | 2/3/2 | 5 | 02 | 17 | 02 | | | | | |
| | Wong Nai Tau | | | 1/4/2 | 5 | 02 | 17 | 02 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| 6C | Mei Foo | | | 5/6/2 | 12 | 04 | 14 | 06 | | | | | |
| | Kowloon City Ferry Pier | | | 3/10/2 | 12 | 04 | 14 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| 30 | Cheung Sha Wan | | | 4/2/2 | 6 | 07 | 15 | 03 | | | | | |
| | Allway Garden | | | 2/7/0 | 6 | 07 | 15 | 03 | 1.84% | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) |

Illustration by Examples –
Bus Breakdown + Redeployment

ROM System Proposal
Control Center Operation

- On the working time table, a screw driver icon will appear next to the bus number of the bus which has broken down.
→ A word “Bus unavailable” will be displayed in departures that involve the bus.

Date

20-08-2014

Time

99:99 - 99:99

Route

Direction

6D

6D

58P

58P

59M

59M

To Mei Foo

To Ngau Tau Kok

To Leung King

To Kwai Fong

To Tuen Mun Ferry Pier

To Tsuen Wan

Licence plate

HY 754

NA8693

KL1584

HP4367

HK5581

PB1632

Captain

77425

6528

65138

72161

1834

Working timetable (F12)

Sort by: Vehicle / Bus Length / Time

| Route | Bus | Vehicle | Duty of captain | Captain carried in | Captain carried away | Duty of captain | Companion captain | Scheduled departure | Actual departure | In advance | Delayed | Scheduled arrival | Arrival at midway station | Stop name | Expected remaining travelling time (minutes) | Clocked- Arrived in | Start point | Midway boarding station | End point | Contact OCC |
|-------|-----|---------|-----------------|--------------------|----------------------|-----------------|-------------------|---------------------|------------------|------------|---------|-------------------|---------------------------|-----------|--|---------------------|-------------|-------------------------|-----------|-------------|
| 6D | 02 | 62564 | HY 754 | 11:45 | 12:45 | | 35216 | | | | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| C46 | 05 | 65325 | KL 6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | | | | -- | -- | -- | -- | -- | -- |
| C39A | 05 | 35047 | LM2168 | 07:58 | 08:20 | | 31353 | | | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 | |
| C43A | 08 | 70524 | HK 5581 | 07:00 | 07:48 | 07:48 | 31381 | | | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 | |
| C35A | 04 | 73914 | ND 5181 | -- | -- | -- | 31618 | | | | | | | -- | -- | -- | -- | -- | -- | |

Staff unavailable

Staff unavailable

arture rate of the
e:

Vehicle information:

Captain Information:

Captain: 62564 XXX
(monthly salary)
Duty: 6D/06/morning
Meal time: 99:99 – 99:99

Data of accidents:

Overtime travelling:
Position: 6D/02
Scheduled departure time: 11:45
Actual arrival time: 12:45

Reasons for being late:

Statistical information:

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Bus broken | 6D | 02 | 62564 | HY 754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Late arrival without reason | C46 | 05 | 65325 | KL 6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| Cheung Chi Leung | Traffic accident | C39A | 05 | 35047 | LM2168 | 07:58 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | C43A | 08 | 70524 | HK 5581 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |
| Cheung Chi Leung | Deviated from driving route | C35A | 04 | 73914 | ND 5181 | -- | -- | -- | 31618 | | | | | -- | -- | -- | -- | -- | -- |

Illustration by Examples –
Bus Breakdown + Redeployment

ROM System Proposal
Control Center Operation

→ Select the trip with missing bus and select “resource hunting”

Date

20-08-2014

Time

99:99 - 99:99

Route

Direction

6D

To Mei Foo

✓

6D

To Ngau Tau Kok

✓

58P

To Leung King

58P

To Kwai Fong

59M

To Tuen Mun Ferry Pier

59M

To Tsuen Wan

Licence plate

HY 754

NA8693

KL1584

HP4367

HK5581

PB1632

Captain

77425

6528

65138

72161

1834

Working timetable (F12)

Sort by: Vehicle / Bus Length / Time

| Route | Bus | Vehicle | Duty of captain | Captain carried in | Duty of captain | Companion | Scheduled departure | Actual departure | In advance | Scheduled arrival | Arrival at midway station | Stop name | Expected remaining travelling time (minutes) | Time | Arrived | Clocked-in | Start point | Midway boarding station | End point | Contact OCC |
|-------|--------|---------|-----------------|--------------------|-----------------|-----------|---------------------|------------------|------------|-------------------|---------------------------|-----------|--|------|--------------|------------|-------------|-------------------------|-----------|-------------|
| 6D | HA5071 | 6D/04 | Morning | 78620 | 6D/04/早 | 62752 | 6D/02/ | 11:25 | 11:25 | 05:00 | 12:24 | 34 | | | Mei Foo | | | Ngau Tau Kok | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 78620 | 6D/04/早 | 62752 | 6D/02/ | 11:25 | 11:25 | 05:00 | 12:24 | 34 | | | Mei Foo | | | Ngau Tau Kok | | 15 |
| 6D | JA5239 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 13 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Mei Foo | | | Ngau Tau Kok | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | 12:39 | 50 | | | Ngau Tau Kok | | | Mei Foo | | 15 |
| 6D | HA5071 | 6D/04 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/ | 11:40 | 11:40 | 05:00 | | | | | | | | | | |

Illustration by Examples –
Bus Breakdown + Redeployment

ROM System Proposal
Control Center Operation

➔ Select the bus to be re-allocated

| | | | | | | | | | |
|---|---|------------------|----------------|-------------------------------------|----------------------------------|---|-------|--------------|--------------|
| Running number | 6D-02 | Scheduled bus: | HK9876 (fault) | Scheduled captain: | 62564 (Chan King Man) | Departure time | 11:45 | Start point: | Ngau Tau Kok |
| Re-allocated time slot | | trips afterwards | | Re-allocation scope: | both the vehicle and the captain | | | | |
| Terminus: | Mei Foo | Lai Chi Kok | Hoi Lai Estate | Kwai Fong Station | More... | | | | |
| Travelling time from depot: | <div><input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E</div> | | | Travelling time for private purpose | | <input type="checkbox"/> Cross-depots <input type="checkbox"/> Cross control centres <input type="checkbox"/> Cross control centres <input type="checkbox"/> Display transfer / pick up <input type="checkbox"/> Stop at depot midway | | | |
| Minimum time gap with departure time of next trip | | | | Missing bus for the route | | | | | |
| No violation of work guidelines | Bus selected for re-allocation | | | Passenger ratio | | | | | |
| | | | | Complaint ratio | | | | | |

Display only the same route / all routes

| Location | Licence plate | Depot | Running number | Captain number and duties | Contact number | Working arrangements | Actual/estimated arrival time | Schedule d departure | Transfer/ pick up | Re-allocation of captain violating the work guidelines | | | | | Missing rate for the original route | Passenge r ratio | Complai nt ratio | Remark |
|----------|---------------|-------|----------------|---------------------------|----------------|-----------------------------|-------------------------------|----------------------|-------------------|--|---|---|---|---|-------------------------------------|------------------|------------------|--------|
| | | | | | | | | | | A | B | C | D | E | | | | |
| Mei Foo | BC2678 | LCK | | — | | Spare | | | | | | | | | | | | |
| Mei Foo | HK2345 | LCK | 86-04 | 1234 86-04 Morning | | 86 returned to depot midway | | 14:12 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Illustration by Examples –
Bus Breakdown + Redeployment

ROM System Proposal
Control Center Operation

Date

20-08-2014

Time

99:99 - 99:99

Route

Direction

6D

To Mei Foo

6D

To Ngau Tau Kok

58P

To Leung King

58P

To Kwai Fong

59M

To Tuen Mun Ferry Pier

59M

To Tsuen Wan

Licence plate

HY 754

NA8693

KL1584

HP4367

HK5581

PB1632

Captain

77425

6528

65138

72161

1834

Incident solved

Working timetable (F12)

調度表 (F12)

Sort by: Vehicle / Bus Length / Time

按車牌 / 車長 / 時間

| Route | Bus | Vehicle | Duty | Captain | Duty of | Companion | Scheduled departure | Actual departure | In advance | Scheduled arrival | Arrival at midway station | Stop name | Expected remaining travelling time (minutes) | Clocked-Start point | Midway boarding station | End point | Contact OCC | Frequency |
|-------|--------|---------|---------|---------|---------|-----------|---------------------|------------------|------------|-------------------|---------------------------|-----------|--|---------------------|-------------------------|-----------|-------------|-----------|
| 6D | JA8071 | 6D/01 | Morning | 78620 | 6D/04/早 | 68752 | 6D/05/早 | Morning | 11:25 | 11:25 | 07:00 | 17:24 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HY 754 | 6D/01 | Morning | 65123 | 6D/01/早 | 72173 | 6D/01/早 | Morning | 11:25 | 11:25 | 07:00 | 17:24 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | JA8299 | 6D/01 | Morning | 72855 | 6D/01/早 | 72855 | 6D/01/早 | Morning | 11:40 | 11:40 | 08:00 | 12:39 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HY 754 | 6D/01 | Morning | 65123 | 6D/01/早 | 72173 | 6D/01/早 | Morning | 11:40 | 11:40 | 08:00 | 12:39 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HY 754 | 6D/01 | Morning | 65123 | 6D/01/早 | 72173 | 6D/01/早 | Morning | 11:55 | 11:55 | 08:00 | 12:54 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HY 754 | 6D/01 | Morning | 65123 | 6D/01/早 | 72173 | 6D/01/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 63763 | 6D/05/早 | 64950 | 6D/03/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 63763 | 6D/05/早 | 64950 | 6D/03/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 63763 | 6D/05/早 | 64950 | 6D/03/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 63763 | 6D/05/早 | 64950 | 6D/03/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HY 585 | 6D/01 | Morning | 62121 | 6D/01/早 | 63763 | 6D/05/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HY 585 | 6D/01 | Morning | 62121 | 6D/01/早 | 63763 | 6D/05/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HY 585 | 6D/01 | Morning | 62121 | 6D/01/早 | 63763 | 6D/05/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HY 585 | 6D/01 | Morning | 62121 | 6D/01/早 | 63763 | 6D/05/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | Ngau Tau Kok | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Ngau Tau Kok | | Mei Foo | | 15 | |
| 6D | HR 386 | 6D/01 | Morning | 64079 | 6D/07/早 | 64079 | 6D/07/早 | Morning | 12:00 | 12:00 | 08:00 | 13:00 | Mei Foo | | | | | |

**Illustration by Examples –
Crew Shortage + Automatic Departure Regulation**

**ROM System Proposal
Control Center Operation**

8.1.2 – Handling Crew Shortage + automatic departure time regulation (route 98C)

➔ New item will be added to the incident board of OCC automatically

| Bus Operations Control Centre: Lai Chi Kok | | | | | | System time: 2014-08-01 05:00:00 | | |
|--|---|--|----------------|----------------|------------|----------------------------------|------------|----------------|
| atcher | Type of incident | Route | Running number | Captain number | Bus number | Inputter | Input time | Reference numb |
| Cheung Chi Leung | Withdrawn from service due to Staff unavailable : | 98C | 05 | 70603 | SH9990 | ROM | 05:00:00 | 35216 |
| Lee Chiu | Staff unavailable | C12 | 05 | 66421 | GZ4853 | TOM | 08:45:20 | 31523 |
| Wong Tai Tung | Bus unavailable | | 05 | 65658 | KR4350 | | 08:45:20 | 31513 |
| Ho Siu Ming | Not yet arrived Affecting future departure | Automatic display of the incident: Withdrawn from service due to Staff unavailable | | | | Wong Tai Tung | | |
| Cheung Chi Leung | Bus breakdown | | | | 18 | Lee Chiu | 09:18:05 | 31608 |
| Lee Chiu | Early leave of captain | | | | 93 | Ho Siu Ming | 08:12:16 | 31468 |
| Cheung Chi Leung | Traffic accident | | | 51 | JK1583 | OCM | 09:12:06 | 31594 |
| Wong Tai Tung | Handling lost property – keep for future handling | C39A | 05 | 85047 | LM2168 | Wong Tai Tung | 07:45:20 | 31353 |
| Wong Tai Tung | Arrival will be delayed | C43A | 08 | 70524 | MK5518 | ROM | 07:50:10 | 31381 |
| Lee Chiu | Deviated from driving route | C 8A | 01 | 1155 | RJ6184 | ROM: | 09:32:47 | 31668 |
| Cheung Chi Leung | Late arrival without reason | C35A | 04 | 73914 | ND6181 | | 09:28:20 | 31618 |
| | | C46 | 05 | 65325 | KL6385 | ROM | 09:33:51 | 31675 |
| | | | | | | | | |
| | | | | | | : | | |
| | | | | | | : | | |

ROM System Proposal
Control Center Operation

Illustration by Examples –
Crew Shortage + Automatic Departure Regulation

→ New item will be added to the incident board on dispatcher's monitoring board

Dispatcher **Cheung Chi Leung** Status of the incident **In process/Unconfirmed/Completed/All**

System time: 2014-08-01 05:00:00



| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Staff unavailable to pick up bus | 98C | 05 | 70603 | SH9990 | 13:45 | 14:45 | | 35216 | | | | | 98C | 05 | 06:12 | 98C | 05 | 06:12 |
| Cheung Chi Leung | Late arrival without reason | C3A | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| Cheung Chi Leung | Traffic accident | 6 | | | 754 | 11:45 | 12:45 | | 34516 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Overtime travelling | C | | | 2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Handling lost property – keep for future handling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Deviated from driving route | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

| Route | To | Late | Early | -/0/+ | Longest delay | | Longest ahead of time | | Accumulated this month | Cumulative same-day lost trips rate | | | |
|-------|-------------------------|------|-------|--------|---------------|----------------|-----------------------|----------------|------------------------|-------------------------------------|--------------|--------------|--------------|
| | | | | | Minutes | Running number | Minutes | Running number | Lost trips rate | 0500-1000 | 1000-1500 | 1500-2000 | 2000-0200 |
| 2A | Mei Foo | | | 0/3/2 | -4 | 06 | 13 | 105 | | | | | |
| | Lok Wah | | | 2/3/2 | -4 | 06 | 15 | 105 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| 6 | Mei Foo | | | 2/8/0 | -3 | 03 | 15 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| | Lai Chi Kok | | | 3/6/2 | -9 | 03 | 15 | 07 | | | | | |
| 6D | Mei Foo | | | 3/3/2 | -8 | 09 | 16 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| | Ngau Tau Kok | | | 1/5/2 | -8 | 09 | 16 | 02 | | | | | |
| 6X | Middle Road | | | 0/4/1 | | | 13 | 03 | 0 | 0/8 (0%) | - | - | - |
| 28 | Mody Road | | | 1/6/2 | -4 | 05 | 16 | 01 | 1.34% | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) |
| | Mody Road | | | 2/6/0 | -4 | 05 | 16 | 01 | | | | | |
| 38A | Mei Foo | | | 0/4/0 | | | | | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| | Riviera Gardens | | | 0/4/0 | | | | | | | | | |
| 72 | Cheung Sha Wan | | | 3/5/1 | -4 | 05 | 11 | 09 | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| | Tai Wo | | | 1/3/4 | -4 | 05 | 11 | 09 | | | | | |
| 86 | Mei Foo | | | 2/3/2 | -5 | 02 | 17 | 502 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| | Wong Nai Tau | | | 1/4/2 | -5 | 02 | 17 | 502 | | | | | |
| 6C | Mei Foo | | | 5/6/2 | 12 | 504 | 14 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| | Kowloon City Ferry Pier | | | 3/10/2 | 12 | 504 | 14 | 06 | | | | | |

Illustration by Examples –
Crew Shortage + Automatic Departure Regulation

ROM System Proposal
Control Center Operation

→ Departures affected will have the word “Withdrawn from service due to crew shortage” displayed in the BC columns

Date
20-08-2014

Time
99:99 - 99:99

Route
Direction

58M
58M
58P
58P
59M
59M

To Leung King
To Kwai Fong
To Leung King
To Kwai Fong
To Tuen Mun Ferry Pier
To Tsuen Wan

Licence plate
+
JU3065
NA8693
KL1584
HP4367
HK5581
PB1632

Captain
+
77425
6628
65138
72161
1834

Working timetable (F12)

Sort by: Vehicle / Bus Length / Time

| Route | Bus | Vehicle duty | Captain carried in | Duty of captain carried in | Captain carried away | Duty of captain carried away | Companion | Scheduled departure | Actual departure | In advance Delayed | Scheduled arrival | Arrival at midway station | Stop name | Expected remaining travelling time (minutes) | Clocked- Arrived in | Start point | Midway boarding station | End point | Contact OCC | Frequency |
|-------|--------|--------------|--------------------|----------------------------|----------------------|------------------------------|-----------|---------------------|------------------|--------------------|-------------------|---------------------------|-------------------------|--|---------------------|-------------|-------------------------|-----------|-------------|-----------|
| 9C | 51708 | 98C/01 | (Depot) | | | | | 777 98C/01 | Morning | 5:28 | 5:30 | | Hang Hau (North) | | Hang Hau (North) | | | | | |
| 9C | 51708 | 98C/01 | | | 76777 98C/01 | | Morning | 777 98C/01 | Morning | 5:30 | 5:30 | | Hang Hau (North) | | Hang Hau (North) | | | | | |
| 9C | 51571 | 98C/04 | (Private) | | | | | 98C 98C/04 | Morning | 5:38 | 5:40 | | Hang Hau (North) | | Mei Foo | | | | | |
| 9C | 51642 | 98C/01 | (Depot) | | | | | 15P 98C/02 | Morning | 5:44 | 5:45 | | Hang Hau (North) | | Hang Hau (North) | | | | | |
| 9C | 51642 | 98C/02 | | | 72113 98C/02 | | Morning | 15P 98C/02 | Morning | 5:45 | 5:45 | | Hang Hau (North) | | Hang Hau (North) | | | | | |
| 9C | 517990 | 98C/05 | (Private) | | | | | 98C 98C/05 | Morning | 5:54 | 5:55 | | Hang Hau (North) | | Mei Foo | | | | | 15 |
| 9C | 51671 | 98C/04 | | | 98C 98C/04 | | Morning | 98C 98C/04 | Morning | 6:00 | 6:00 | | Hang Hau (North) | | Hang Hau (North) | | | | | 15 |
| 9C | 518990 | 98C | | | | | | 98C 98C/04 | Morning | 6:00 | 6:00 | | Hang Hau (North) | | Mei Foo | | | | | 15 |
| 9C | 514130 | 98C/15 | (Depot) | | | | | 98C 98C/15 | Morning | 6:00 | 6:00 | | Hang Hau (North) | | Mei Foo | | | | | 12 |
| 9C | 518461 | 98C/06 | (Depot) | | | | | 98C 98C/06 | Morning | 6:00 | 6:00 | | Tseung Kwan O Depot | | Hang Hau (North) | | | | | |
| 9C | 518461 | 98C/06 | (Depot) | | | | | 98C 98C/06 | Morning | 6:00 | 6:00 | | Chun Wang Street lane C | | Hang Hau (North) | | | | | |
| 9C | 514130 | 98C/15 | | | 78734 98C/15 | | Morning | 98C 98C/15 | Morning | 6:00 | 6:00 | | Hang Hau (North) | | Mei Foo | | | | | 12 |
| 9C | 519133 | 98C/08 | (Depot) | | | | | 98C 98C/08 | Morning | 6:00 | 6:00 | | Chun Wang Street lane C | | Hang Hau (North) | | | | | |
| 9C | 517944 | 98C/09 | (Private) | | | | | 98C 98C/09 | Morning | 6:00 | 6:00 | | Hang Hau (North) | | Hang Hau (North) | | | | | |
| 9C | 518461 | 98C/06 | | | 73893 98C/06 | | Morning | 98C 98C/06 | Morning | 6:00 | 6:00 | | Hang Hau (North) | | Mei Foo | | | | | 12 |
| 9C | 519133 | 98C/08 | | | 77234 98C/08 | | Morning | 98C 98C/08 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 12 |
| 9C | 519133 | 98C/08 | | | 77234 98C/08 | | Morning | 98C 98C/08 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 12 |
| 9C | 519133 | 98C/08 | (Depot) | | | | | 77777 98C/08 | Morning | 6:00 | 6:00 | | Hang Hau (North) | | Hang Hau (North) | | | | | |
| 9C | 519133 | 98C/08 | | | 77777 98C/08 | | Morning | 77777 98C/08 | Morning | 6:00 | 6:00 | | Hang Hau (North) | | Mei Foo | | | | | 11 |
| 9C | 514443 | 98C/07 | (Depot) | | | | | 98C 98C/07 | Morning | 6:00 | 6:00 | | Tseung Kwan O Depot | | Hang Hau (North) | | | | | |
| 9C | 514443 | 98C/07 | (Depot) | | | | | 98C 98C/07 | Morning | 6:00 | 6:00 | | Hang Hau (North) | | Mei Foo | | | | | 10 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 10 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 10 |
| 9C | 514443 | 98C/07 | (Depot) | | | | | 98C 98C/07 | Morning | 6:00 | 6:00 | | Tseung Kwan O Depot | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | | Mei Foo | | Hang Hau (North) | | | | | 11 |
| 9C | 514443 | 98C/07 | | | 70481 98C/07 | | Morning | 98C 98C/07 | Morning | 6:00 | 6:00 | </ | | | | | | | | |

Illustration by Examples –
Crew Shortage + Automatic Departure Regulation

ROM System Proposal
Control Center Operation

→ Regulate departures to evenly distribute the departure times

Date
20-08-2014

Time
99:99 - 99:99

RouteDirection

98C

98C

58P

58P

59M

59M

To Mei Foo

Hang Hau (North)

To Leung King

To Kwai Fong

To Tuen Mun Ferry Pier

To Tsuen Wan

Licence plate

3C2678

4A8693

KL1584

HP4367

HK5581

7B1632

Captain

77425

6528

65138

72161

1834

Working timetable (F12)

Sort by: Vehicle / Bus Length / Time

| Vehicle | Duty of captain | Captain carried in | Duty of captain | Companion | Scheduled departure | Actual departure | In advance | Scheduled arrival | Arrival at midway station | Stop name | Expected remaining travelling time (minutes) | Arrived in | Clocked- Start point | Midway boarding station | End point | Contact OCC | Frequency |
|---------|-----------------|--------------------|-----------------|---|---------------------|------------------|------------|-------------------|---------------------------|-----------|--|------------|-------------------------|-------------------------|-----------|-------------|-----------|
| 8C | SH6452 | 98C/02 | | | 73119 | 98C/02 | Morning | 73119 | 98C/02 | Morning | 1:45 | 6:40 | Hang Hau (North) | Mei Foo | | 15 | |
| 8C | SH9990 | 98C/05 | (Private) | Withdrawn from service due to crew shortage | | | Morning | 1:54 | 6:55 | | | | Hang Hau (North) | Hang Hau (North) | | | |
| 8C | SH571 | 98C/04 | | | 62560 | 98C/04 | Morning | 12660 | 98C/04 | Morning | 1:00 | 6:55 | Hang Hau (North) | Mei Foo | | 15 | |
| 8C | SH9990 | | | Withdrawn from service due to crew shortage | | | Morning | 1:12 | 7:07 | | | | Hang Hau (North) | Mei Foo | | | |
| 8C | SH4110 | 98C/15 | (Depot) | | | | | 18334 | 98C/15 | Morning | 1:15 | 6:24 | Hang Hau (North) | Hang Hau (North) | | | |
| 8C | SH8451 | 98C/06 | (Depot) | | | | | 3893 | 98C/06 | Morning | 1:20 | 6:36 | Tseung Kwan O Depot | Hang Hau (North) | | | |
| 8C | SH4110 | 98C/15 | | | 73334 | 98C/15 | Morning | 73334 | 98C/15 | Morning | 1:24 | 7:24 | Chun Wang Street lane C | Mei Foo | | 14 | |
| 8C | SH9233 | 98C/08 | (Depot) | | | | | 7234 | 98C/08 | Morning | 1:32 | 6:48 | Hang Hau (North) | Hang Hau (North) | | | |
| 8C | SH7954 | 98C/09 | (Private) | | | | | 10074 | 98C/09 | Morning | 1:34 | 6:35 | Chun Wang Street lane C | Hang Hau (North) | | | |
| 8C | SH8451 | 98C/06 | | | 73593 | 98C/06 | Morning | 3893 | 98C/06 | Morning | 1:36 | 7:36 | Hang Hau (North) | Hang Hau (North) | | | |
| 8C | SH4110 | 98C/15 | | | 73119 | 98C/15 | Morning | 73119 | 98C/15 | Morning | 1:40 | 7:40 | Hang Hau (North) | Mei Foo | | 12 | |
| 8C | SH9233 | 98C/08 | | | 77234 | 98C/08 | Morning | 7234 | 98C/08 | Morning | 1:48 | 7:48 | Mei Foo | Hang Hau (North) | | | |
| 8C | SH4110 | 98C/15 | | | 73119 | 98C/15 | Morning | 73119 | 98C/15 | Morning | 1:51 | 7:51 | Hang Hau (North) | Mei Foo | | 12 | |
| 8C | SH3942 | 98C/03 | (Depot) | | | | | 7977 | 98C/03 | Morning | 1:58 | 6:59 | Mei Foo | Hang Hau (North) | | | |
| 8C | SH3942 | 98C/03 | | | 77977 | 98C/03 | Morning | 7977 | 98C/03 | Morning | 1:59 | 7:59 | Hang Hau (North) | Hang Hau (North) | | | |
| 8C | SH4443 | 98C/07 | (Depot) | | | | | 0461 | 98C/07 | Morning | 2:00 | 7:09 | Hang Hau (North) | Mei Foo | | 11 | |
| 8C | SH4443 | 98C/07 | | | 70461 | 98C/07 | Morning | 0461 | 98C/07 | Morning | 2:09 | 8:09 | Tseung Kwan O Depot | Hang Hau (North) | | | |
| 8C | SH4110 | 98C/15 | | | 62560 | 98C/15 | Morning | 62560 | 98C/15 | Morning | 2:10 | 8:10 | Hang Hau (North) | Mei Foo | | 10 | |
| 8C | SH8404 | 98C/10 | (Depot) | | | | | 3253 | 98C/10 | Morning | 2:14 | 7:30 | Mei Foo | Hang Hau (North) | | | |
| 8C | SH7944 | 98C/09 | | | 70074 | 98C/09 | Morning | 0074 | 98C/09 | Morning | 2:20 | 8:20 | Chun Wang Street lane C | Hang Hau (North) | | | |
| 8C | | | | Withdrawn from service due to crew shortage | | | | | | | | | Hang Hau (North) | Mei Foo | | 21 | |
| 8C | SH227 | 98C/11 | (Depot) | Withdrawn from service due to crew shortage | | | | | | | | | Mei Foo | Hang Hau (North) | | | |
| 8C | SH8404 | 98C/10 | | | 63253 | 98C/10 | Morning | 3253 | 98C/10 | Morning | 2:30 | 8:30 | Chun Wang Street lane C | Hang Hau (North) | | | |
| 8C | SH4110 | 98C/15 | | | 73119 | 98C/15 | Morning | 73119 | 98C/15 | Morning | 2:33 | 8:33 | Hang Hau (North) | Mei Foo | | 10 | |
| 8C | SH227 | 98C/11 | | | 75263 | 98C/11 | Morning | 5263 | 98C/11 | Morning | 2:41 | 8:41 | Mei Foo | Hang Hau (North) | | | |
| 8C | SH4110 | 98C/15 | | | 73119 | 98C/15 | Morning | 73119 | 98C/15 | Morning | 2:44 | 8:44 | Hang Hau (North) | Mei Foo | | 11 | |
| 8C | SH709 | 98C/01 | | | 78777 | 98C/01 | Morning | 777 | 98C/01 | Morning | 2:51 | 8:51 | Mei Foo | Hang Hau (North) | | | |
| 8C | SH9233 | 98C/08 | | | 77234 | 98C/08 | Morning | 7234 | 98C/08 | Morning | 2:54 | 8:54 | Hang Hau (North) | Mei Foo | | 10 | |

Board of Dispatcher

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Staff unavailable to pick up bus | 98C | 05 | 70603 | SH9990 | 13:45 | 14:45 | | 35216 | | | | | 98C | 05 | 06:12 | 98C | 05 | 06:12 |
| Cheung Chi Leung | Late arrival without reason | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| Cheung Chi Leung | Bus broken | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 34516 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Separate display for different directions
Display only trips

Departure time of previous trip prior to the trip involving unavailable staff/bus

Applicable to trip departed from : to :
After advancing the trip involving unavailable staff/bus
☐ Departure time of next trip
Departure time of all trips afterwards

Apply formerly adjusted travelling time:
58M closed with 7 buses on weekdays (Thursday, 23 October)
58M closed with 7 buses on weekdays (Monday, 6 October)

Illustration by Examples –
Crew Shortage + Automatic Departure Regulation

ROM System Proposal
Control Center Operation

➔ Select first departure with missing BC and input departure regulating instructions, and then click “Execute “Execute”

Date
20-08-2014

Time
99:99 - 99:99

Route
98C
98C
58P
58P
58M
58M

Direction
To Mei Foo
Hang Hau (North)
To Leung King
To Kwai Fong
To Tuen Mun Ferry Pier
To Tsuen Wan

Licence plate
3C2678
4A8693
CL1584
HP4367
HK5581
7B1632

Captain
77425
6528
65138
72161
1834

Working timetable (F12)

| Bus | Vehicle | Duty of captain | Captain carried in | Captain carried away | Duty of captain | Companion captain | Scheduled departure | Actual departure | In advance Delayed | Scheduled arrival | Arrival at midway station | Stop name | Expected remaining travelling time (minutes) | Time | Clocked- Arrived | Start in | Midway boarding station | End point | Contact OCC | Frequency |
|-----|---------|-----------------|--------------------|----------------------|---|-------------------|---------------------|------------------|--------------------|-------------------|---------------------------|------------------|--|------|------------------|----------|-------------------------|-----------|-------------|-----------|
| 98C | SH9990 | 98C/02 | 73119 | 98C/01 | Morning | 73119 | 98C/01 | Morning | 6:45 | 6:40 | Hang Hau (North) | Mei Foo | 15 | | | | | | | |
| 98C | SH9990 | 98C/01 | | | Withdrawn from service due to crew shortage | | | Morning | 6:54 | 5:55 | Hang Hau (North) | Hang Hau (North) | | | | | | | | |
| 98C | SH571 | 98C/04 | (Private) | | | | | Morning | 6:00 | 6:55 | Hang Hau (North) | Mei Foo | 15 | | | | | | | |
| 98C | SH9990 | 98C/05 | | | Withdrawn from service due to crew shortage | | | Morning | 7:12 | 7:07 | Hang Hau (North) | Mei Foo | | | | | | | | |
| 98C | SH4210 | 98C/15 | | | | | | Morning | 6:15 | 6:24 | Hang Hau (North) | Hang Hau (North) | | | | | | | | |
| 98C | SH8461 | 98C/04 | (Depot) | | | | | Morning | 6:20 | 6:36 | Tseung Kwan O Depot | Hang Hau (North) | | | | | | | | |
| 98C | SH4110 | 98C/15 | (Depot) | | | 78134 | 98C/ | Morning | 6:24 | 7:24 | XXX | Mei Foo | 24 | | | | | | | |
| 98C | SH9233 | 98C/08 | | | | | | Morning | 6:32 | 6:48 | Hang Hau (North) | Hang Hau (North) | | | | | | | | |
| 98C | SH7944 | 98C/09 | (Depot) | | | | | Morning | 6:34 | 6:35 | XXX | Hang Hau (North) | | | | | | | | |
| 98C | SH8461 | 98C/06 | (Private) | | | 73893 | 98C/ | Morning | 6:36 | 7:36 | Hang Hau (North) | Mei Foo | 12 | | | | | | | |
| 98C | SH9233 | 98C/08 | | | | | | Morning | 6:40 | 7:40 | Hang Hau (North) | Hang Hau (North) | | | | | | | | |
| 98C | SH9233 | 98C/01 | | | | | | Morning | 6:45 | 7:45 | Mei Foo | Mei Foo | 12 | | | | | | | |
| 98C | SH9233 | 98C/03 | | | | | | Morning | 6:58 | 6:59 | Mei Foo | Hang Hau (North) | 15 | | | | | | | |
| 98C | SH9233 | 98C/03 | (Depot) | | | 77977 | 98C/ | Morning | 6:59 | 7:59 | Hang Hau (North) | Hang Hau (North) | | | | | | | | |
| 98C | SH4443 | 98C/07 | | | | | | Morning | 7:00 | 7:09 | Hang Hau (North) | Mei Foo | 11 | | | | | | | |
| 98C | SH4443 | 98C/07 | (Depot) | | | 70461 | 98C/ | Morning | 7:09 | 8:09 | Tseung Kwan O Depot | Hang Hau (North) | | | | | | | | |
| 98C | SH9233 | 98C/04 | | | | | | Morning | 7:10 | 8:10 | Hang Hau (North) | Mei Foo | 10 | | | | | | | |
| 98C | SH8404 | 98C/10 | | | | | | Morning | 7:14 | 7:30 | Mei Foo | Hang Hau (North) | 15 | | | | | | | |
| 98C | SH7944 | 98C/09 | (Depot) | | | 70074 | 98C/ | Morning | 7:20 | 8:20 | XXX | Hang Hau (North) | | | | | | | | |
| 98C | SH9233 | 98C/05 | | | Withdrawn from service due to crew shortage | | | Morning | 7:25 | 8:25 | Hang Hau (North) | Mei Foo | 11 | | | | | | | |
| 98C | SH9233 | 98C/11 | | | | | | Morning | 7:25 | 7:41 | Mei Foo | Hang Hau (North) | | | | | | | | |
| 98C | SH8404 | 98C/10 | (Depot) | | | 63253 | 98C/ | Morning | 7:30 | 8:30 | XXX | Hang Hau (North) | 10 | | | | | | | |
| 98C | SH4110 | 98C/15 | | | | | | Morning | 7:33 | 8:33 | Hang Hau (North) | Mei Foo | 23 | | | | | | | |
| 98C | SH9233 | 98C/11 | | | | 75263 | 98C/ | Morning | 7:41 | 8:41 | Hang Hau (North) | Mei Foo | 11 | | | | | | | |
| 98C | SH8461 | 98C/05 | | | | | | Morning | 7:44 | 8:44 | Mei Foo | Hang Hau (North) | 11 | | | | | | | |
| 98C | SH709 | 98C/01 | | | | 78777 | 98C/ | Morning | 7:51 | 8:51 | Hang Hau (North) | Mei Foo | 10 | | | | | | | |
| 98C | SH9233 | 98C/04 | | | | | | Morning | 7:54 | 8:54 | Hang Hau (North) | Mei Foo | | | | | | | | |

Board of Dispatcher

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Staff unavailable to pick up bus | 98C | 05 | 70603 | SH9990 | 13:45 | 14:45 | | 35216 | | | | | 98C | 05 | 06:12 | 98C | 05 | 06:12 |
| Cheung Chi Leung | Late arrival without reason | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | | | | | | |
| Cheung Chi Leung | Bus broken | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 34516 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Separate display for
different directions
Display only trips

Departure time of previous
trip prior to the trip
involving unavailable
staff/bus

Applicable to trip departed
from 06:00 to 15:30

After advancing the trip
involving unavailable
staff/bus

2 Departure time of next
trip

Departure time of all trips
afterwards

Execute

Apply formerly adjusted
travelling time:

58M closed with 7 buses
on weekdays (Thursday,
23 October)

58M closed with 7 buses
on weekdays (Monday, 6
October)

ROM System Proposal
Control Center Operation

Illustration by Examples –
Crew Shortage + Automatic Departure Regulation
→ Departure regulation complete

| Date | | Working timetable (F12) | | Sort by: Vehicle / Bus Length / Time | |
|---------------|-------|-------------------------|--|--------------------------------------|--|
| 20-08-2014 | | | | | |
| Time | | | | | |
| 99:99 - | 99:99 | | | | |
| Route | | Direction | | | |
| | | | | | |
| 98C | | To Mei Foo | | | |
| 98C | | Hang Hau (North) | | | |
| 58P | | To Leung King | | | |
| 58P | | To Kwai Fong | | | |
| 59M | | To Tuen Mun Ferry Pier | | | |
| 59M | | To Tsuen Wan | | | |
| Licence plate | | | | | |
| | | | | | |
| 3C2678 | | | | | |
| 4A8698 | | | | | |
| CL1584 | | | | | |
| 4P4367 | | | | | |
| HK5581 | | | | | |
| 7B1632 | | | | | |
| Captain | | | | | |
| | | | | | |
| 77425 | | | | | |
| 6628 | | | | | |
| 65138 | | | | | |
| 72161 | | | | | |
| 1834 | | | | | |

Separate display for
different directions
Display only trips

Departure time of previous
trip prior to the trip
involving unavailable
staff/bus

Applicable to trip departed
from : to :
After advancing the trip
involving unavailable
staff/bus

Departure time of next
trip
Departure time of all trips
afterwards

Execute

Apply formerly adjusted
travelling time:
58M closed with 7 buses
on weekdays (Thursday,
23 October)
58M closed with 7 buses
on weekdays (Monday, 6
October)

Board of Dispatcher

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Staff unavailable to pick up bus | 98C | 05 | 70603 | SH9990 | 13:45 | 14:45 | | 35216 | | | | | 98C | 05 | 05:12 | 98C | 05 | 06:12 |
| Cheung Chi Leung | Late arrival without reason | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| Cheung Chi Leung | Bus broken | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 34516 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | C43A | 08 | 70524 | MK3518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

**Illustration by Examples –
Delay of Arrival + Departure Regulation**

**ROM System Proposal
Control Center Operation**

8.1.3 – Handling delay of arrival + departure time regulation (route 42)

➔ When the system detects that the bus cannot arrive on time and the next departure will be delayed, new item will be added to the incident board of OCC automatically

| Bus Operations Control Centre: Lai Chi Kok | | | | | | System time: 2014-08-01 14:56:00 | | |
|--|---|--|----------------|----------------|------------|----------------------------------|------------|-----------|
| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Inputter | Input time | Reference |
| Cheung Chi Leung | Overtime travelling: | 58M | 02 | 60757 | JU3065 | ROM | 12:45:00 | 35216 |
| Lee Chiu | Staff unavailable | C12 | 05 | 66421 | GZ4853 | TOM | 08:45:20 | 31523 |
| Wong Tai Tung | Bus unavailable | | 06 | 65658 | HR4350 | TOM | 08:45:20 | 31513 |
| Ho Siu Ming | Not yet arrived Affecting future departure | Automatic display of the incident: overtime travelling | | | | Wong Tai Tung | | |
| Cheung Chi Leung | Bus breakdown | | | | | Lee Chiu | 09:18:05 | 31608 |
| Lee Chiu | Early leave of captain | | | | | Ho Siu Ming | 08:12:16 | 31468 |
| Cheung Chi Leung | Traffic accident | | | | | OCM | 09:12:06 | 31594 |
| Wong Tai Tung | Handling lost property – keep for future handling | C39A | 05 | 85047 | LM2168 | Wong Tai Tung | 07:45:20 | 31353 |
| Wong Tai Tung | Arrival will be delayed | C43A | 08 | 70524 | MK5518 | | 07:50:10 | 31381 |
| | | C8A | 04 | 1155 | RJ6184 | ROM | 09:32:47 | 31668 |
| Lee Chiu | Deviated from driving route | C35A | 04 | 73914 | ND6181 | ROM: | 09:28:20 | 31618 |
| Cheung Chi Leung | Late arrival without reason | C46 | 05 | 65325 | KL6385 | ROM | 09:33:51 | 31675 |
| | | | | | | | | |
| | | | | | | : | | |
| | | | | | | : | | |
| Page 85 of 106 | | | | | | | | |

Illustration by Examples –
Delay of Arrival + Departure Regulation

ROM System Proposal
Control Center Operation

→ New item will be created to the incident board on dispatcher's screen

Dispatcher **Cheung Chi Leung** Status of the incident **In process/Unconfirmed/Completed/All**

System time: 2014-08-01 14:56:12



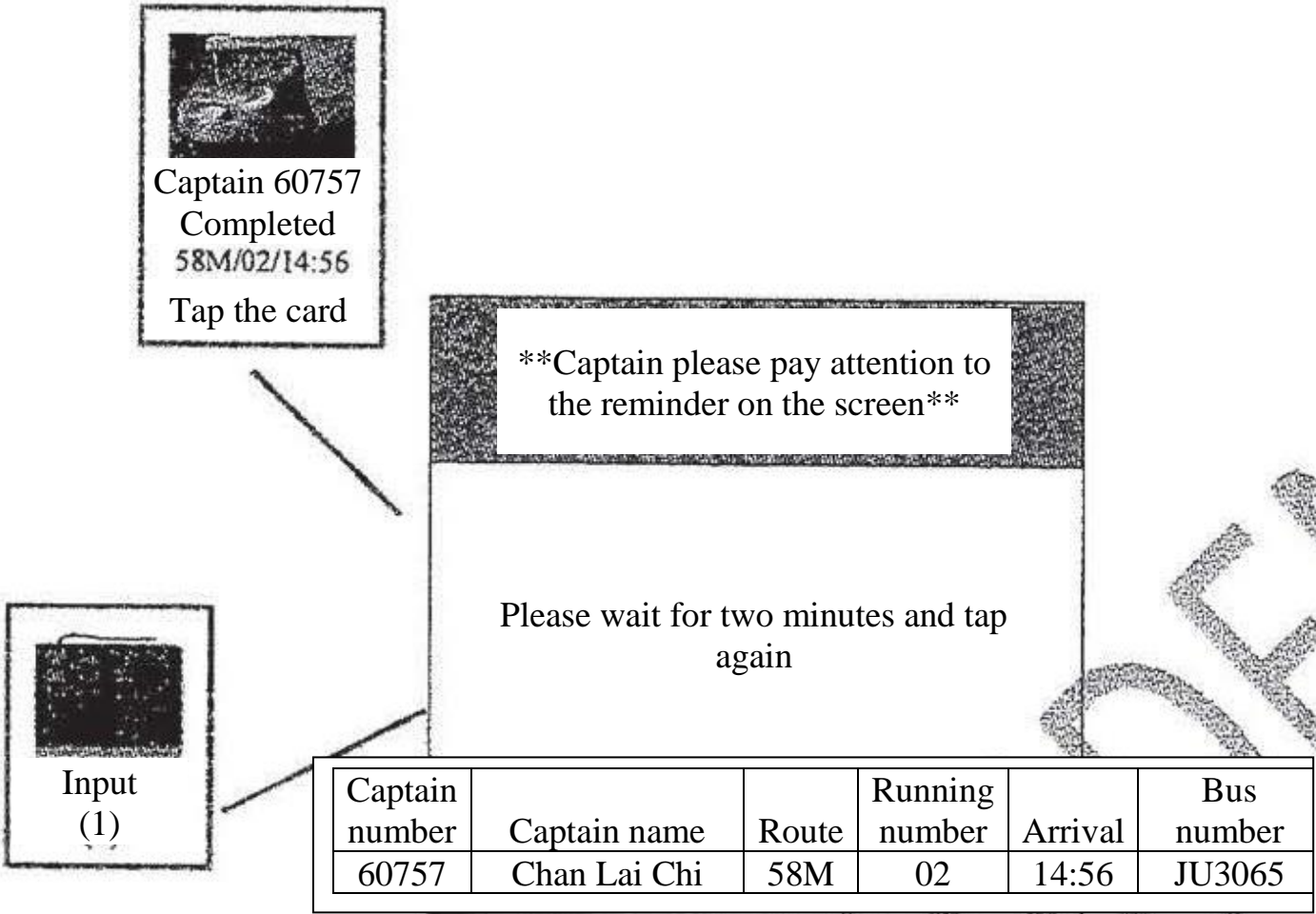
| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|--|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Overtime travelling | 1 | 02 | 60757 | IU3065 | 13:45 | 14:45 | | 31653 | | | | | 58M | 02 | 14:52 | 58M | 02 | 14:52 |
| Cheung Chi Leung | Late arrival without reason | 1 | 02 | 60757 | IU3065 | 09:20 | 09:28 | 31675 | | | | | | | | | | | |
| Cheung Chi Leung | Bus breakdown | Automatic display of the incident: overtime travelling | | | | 12:45 | | 35216 | | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | | | | | 08:20 | | 31353 | | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | | | | | | | | | | | | | | | | | | |
| | | A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

| Route | To | Late | Early | -/0/+ | Longest delay | | Longest ahead of time | | Accumulated this month | Cumulative same-day lost trips rate | | | |
|-------|-------------------------|------|-------|--------|---------------|----------------|-----------------------|----------------|------------------------|-------------------------------------|--------------|--------------|--------------|
| | | | | | Minutes | Running number | Minutes | Running number | | Lost trips rate | 0500-1000 | 1000-1500 | 1500-2000 |
| 2A | Mei Foo | | | 0/3/2 | 4 | 06 | 45 | 07 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| | Lok Wah | | | 2/3/2 | 4 | 06 | 45 | 07 | | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| 6 | Mei Foo | | | 2/8/0 | 5 | 03 | 45 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| | Lai Chi Kok | | | 3/6/2 | 9 | 03 | 45 | 07 | | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| 6D | Mei Foo | | | 3/3/2 | 8 | 09 | 46 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| | Ngau Tau Kok | | | 1/5/2 | 8 | 09 | 46 | 02 | | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| 6X | Middle Road | | | 0/4/3 | - | - | 33 | 03 | 0 | 0/8 (0%) | - | - | - |
| 28 | Mody Road | | | 1/6/2 | 4 | 05 | 46 | 01 | 1.34% | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) |
| | Mody Road | | | 2/1/0 | 4 | 05 | 46 | 01 | | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) |
| 38A | Mei Foo | | | 0/1/0 | - | - | - | - | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| | Riviera Gardens | | | 0/4/0 | - | - | - | - | | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| 72 | Cheung Sha Wan | | | 3/5/1 | 4 | 05 | 43 | 09 | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| | Tai Wo | | | 1/3/3 | 4 | 05 | 43 | 09 | | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| 86 | Mei Foo | | | 2/3/2 | 5 | 02 | 47 | 02 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| | Wong Nai Tau | | | 3/4/2 | 5 | 02 | 47 | 02 | | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| 6C | Mei Foo | | | 5/6/2 | 12 | 04 | 44 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| | Kowloon City Ferry Pier | | | 3/10/2 | 12 | 04 | 44 | 06 | | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |

**Illustration by Examples –
Delay of Arrival + Departure Regulation**

**ROM System Proposal
Control Center Operation**

➔ After the BC has finished the trip and presents the driver CSC card, the system will prompt the BC to present the driver card again in 2 minutes



ROM System Proposal Control Center Operation

→ Departures affected will have the scheduled departure time displayed in red

[illegible]

Illustration by Examples –
Delay of Arrival + Departure Regulation

ROM System Proposal
Control Center Operation

➔ Departure regulation is selected and the departures with different destinations are sorted separately

Date

20-08-2014

Time

99:99 - 99:99

Route

Direction

58M

To Leung King

58M

To Kwai Fong

58P

To Leung King

58P

To Kwai Fong

59M

To Tuen Mun Ferry Pier

59M

To Tsuen Wan

Licence plate

JU3065

MA8693

KL1584

HP4367

HK5581

PB1632

Captain

71425

6528

65138

72161

1834

Staff unavailable

Bus unavailable

| Route | Bus | Vehicle duty | Captain carried in | Duty of captain carried in | Captain carried away | Duty of captain carried away | Companion captain | Scheduled departure | Actual departure | In advance Delayed | Scheduled arrival | Arrival at midway station | Stop name | Expected remaining travelling time (minutes)Time | Arrived in | Clocked- Start point | Midway boarding station | End point | Contact OCC | Frequency |
|-------|--------|--------------|--------------------|----------------------------|----------------------|------------------------------|-------------------|---------------------|------------------|--------------------|-------------------|---------------------------|-----------|--|------------|----------------------|-------------------------|-----------|-------------|-----------|
| 58M | JU7191 | 58M/01 | | | 58M/14/早 | Morning | 58M/07/早 | Morning | 14:28 | 14:28 | 0:00 | 15:22 | | | | | | | | |
| 58M | JU7196 | 58M/02 | | | 58M/515/早 | Morning | 58M/514/早 | Morning | 14:34 | 14:34 | 0:00 | 14:44 | | | | | | | | |
| 58M | JU3065 | 58M/02 | | | 71306 | 58M/11/早 | Morning | 58M/11/早 | 14:34 | 14:34 | 0:00 | 14:34 | | | | | | | | |
| 58M | KV6817 | 58M/03 | | | 60009 | 58M/09/早 | Morning | 58M/09/早 | 14:36 | 14:36 | 0:00 | 15:30 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 87684 | 58M/514/早 | Morning | 58M/514/早 | 14:44 | 14:44 | 0:00 | 15:38 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 66757 | 58M/02/早 | Morning | 58M/07/早 | 14:52 | | | 15:46 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 53679 | 58M/101/早 | Night | 58M/101/早 | 14:54 | | | 15:14 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 1180 | 58M/503/早 | Morning | 58M/503/早 | 14:58 | | | 15:08 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 72496 | 58M/12/早 | Morning | 58M/08/早 | 14:56 | | | 15:54 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 1180 | 58M/503/早 | Morning | 58M/503/早 | 15:08 | | | 16:02 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 1624 | 58M/102/早 | Night | 58M/102/早 | 15:14 | | | 15:14 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 69551 | 58M/504/早 | Morning | 58M/504/早 | 15:14 | | | 15:14 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 65489 | 58M/08/早 | Morning | 58M/104/早 | 15:16 | | | 16:10 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 64581 | 58M/15/早 | Morning | 58M/15/早 | 15:24 | | | 15:44 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 69551 | 58M/504/早 | Morning | 58M/504/早 | 15:24 | | | 15:44 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 66187 | 58M/01/早 | Morning | 58M/96/早 | 15:40 | | | 15:40 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 78229 | 58M/12/早 | Morning | 58M/12/早 | | | | | | | | | | | | |

| Route | Bus | Vehicle duty | Captain carried in | Duty of captain carried in | Captain carried away | Duty of captain carried away | Companion captain | Scheduled departure | Actual departure | In advance Delayed | Scheduled arrival | Arrival at midway station | Stop name | Expected remaining travelling time (minutes)Time | Arrived in | Clocked- Start point | Midway boarding station | End point | Contact OCC | Frequency |
|-------|--------|--------------|--------------------|----------------------------|----------------------|------------------------------|-------------------|---------------------|------------------|--------------------|-------------------|---------------------------|-----------|--|------------|----------------------|-------------------------|-----------|-------------|-----------|
| 58M | KV7491 | 58M/03 | | | 65489 | 58M/08/早 | Morning | 58M/104/早 | 15:16 | | | 16:10 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 64581 | 58M/15/早 | Morning | 58M/15/早 | 15:24 | | | 15:44 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 69551 | 58M/504/早 | Morning | 58M/504/早 | 15:24 | | | 15:44 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 66187 | 58M/01/早 | Morning | 58M/96/早 | 15:40 | | | 15:40 | | | | | | | | |
| 58M | KV7491 | 58M/03 | | | 78229 | 58M/12/早 | Morning | 58M/12/早 | | | | | | | | | | | | |

Board of Dispatcher

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|----------------------------------|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Staff unavailable to pick up bus | 58M | 02 | 60757 | JU3065 | 13:45 | 14:45 | | 31653 | | | | | 58M | 02 | 14:52 | 58M | 02 | 14:52 |
| Cheung Chi Leung | Late arrival without reason | C46 | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | 58M | 02 | 14:52 | 58M | 02 | 14:52 |
| Cheung Chi Leung | Bus broken | 6D | 02 | 58564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

Separate display for different directions
Display only trips

Departure time of previous trip prior to the trip involving unavailable staff/bus

Applicable to trip departed from : to :
After advancing the trip involving unavailable staff/bus

☐ Departure time of next trip
Departure time of all trips afterwards

Apply formerly adjusted travelling time:
58M closed with 7 buses on weekdays (Thursday, 23 October)
58M closed with 7 buses on weekdays (Monday, 6 October)

Page 89 of 100

312
4706-19

Illustration by Examples – Delay of Arrival + Departure Regulation

➔ Manually change the departure time and location of mid-way departure

ROM System Proposal Control Center Operation

| | | |
|---------------|------------------------|-------|
| Date | 20-08-2014 | |
| Time | 99:99 - | 99:99 |
| Route | Direction | |
| 58M | To Leung King | |
| 58M | To Kwai Fong | |
| 58P | To Leung King | |
| 58P | To Kwai Fong | |
| 59M | To Tuen Mun Ferry Pier | |
| 59M | To Tsuen Wan | |
| Licence plate | | |
| JU3065 | | |
| NA8693 | | |
| KL1584 | | |
| HP4367 | | |
| HK5581 | | |
| PB1632 | | |
| Captain | | |
| 77425 | | |
| 6528 | | |
| 65138 | | |
| 72161 | | |
| 1834 | | |

| Route | Bus | Vehicle | duty | Captain carried in | Duty of captain carried in | Captain carried away | Duty of captain carried away | Companion captain | Scheduled departure | Actual departure | In advance Delayed | Scheduled arrival | Arrival at midway station | Stop name | Expected remaining travelling time (minutes)Time | Arrived | Clocked- Start in point | Midway boarding station | End point | Contact OCC | Frequency |
|-------|----------|---------|----------|--------------------|----------------------------|----------------------|------------------------------|-------------------|---------------------|-------------------|--------------------|------------------------|---------------------------|-------------------|--|---------|-------------------------|-------------------------|-----------|-------------|-----------|
| 58M | KU8269 | 58M/15 | (Depot) | 60937 | 58M/13/1 | Morning | 58M/06/1 | Night | 14:02 | 14:02 | 0:00 | 14:56 | Leung King Estate | Kwai Fong Station | 6 | | | | | | |
| 58M | 58M/511 | (Depot) | 60804 | 58M/10/1 | Morning | 58M/10/1 | Morning | 14:04 | 14:04 | 0:00 | 14:24 | Leung King Estate | Tuen Mun (South) Depot | - | | | | | | | |
| 58M | 58M/13/1 | Morning | 58M/07/1 | Morning | 14:19 | 14:19 | 0:00 | 15:13 | Leung King Estate | Kwai Fong Station | 17 | | | | | | | | | | |
| 58M | 58M/513 | (Depot) | 78464 | 58M/513/1 | Morning | 58M/514/1 | Morning | 14:34 | 14:34 | 0:00 | 14:44 | Leung King Estate | Kwai Fong Station | 25 | | | | | | | |
| 58M | 58M/513 | (Depot) | 72306 | 58M/11/1 | Morning | 58M/11/1 | Morning | 14:34 | 14:34 | 0:00 | 14:54 | Leung King Estate | Tuen Mun (South) Depot | - | | | | | | | |
| 58M | 58M/09 | (Depot) | 60309 | 58M/09/1 | Morning | 58M/05/1 | Morning | 14:36 | 14:36 | 0:00 | 15:30 | Leung King Estate | Kwai Fong Station | 2 | | | | | | | |
| 58M | 58M/513 | (Depot) | 87654 | 58M/513/1 | Morning | 58M/514/1 | Morning | 14:41 | 14:44 | 0:00 | 15:38 | Leung King Estate | Kwai Fong Station | 8 | | | | | | | |
| 58M | 58M/02 | (Depot) | 60757 | 58M/02/1 | Morning | 58M/07/1 | Night | 15:00 | 15:00 | 0:00 | 15:00 | Leung King Estate | Kwai Fong Station | 15 | | | | | | | |
| 58M | 58M/03 | (Depot) | 53675 | 58M/03/1 | Night | 58M/001/1 | Night | 14:54 | 14:54 | 0:00 | 15:24 | Leung King Estate | Tuen Mun (South) Depot | - | | | | | | | |
| 58M | 58M/503 | (Depot) | 1180 | 58M/503/1 | Morning | 58M/503/1 | Morning | 14:55 | 14:55 | 0:00 | 15:08 | Tuen Mun (South) Depot | Leung King Estate | - | | | | | | | |
| 58M | 58M/16 | (Depot) | 72494 | 58M/16/1 | Morning | 58M/08/1 | Night | 15:00 | 15:00 | 0:00 | 15:54 | Leung King Estate | Kwai Fong Station | 0 | | | | | | | |
| 58M | 58M/508 | (Depot) | 1180 | 58M/508/1 | Morning | 58M/503/1 | Morning | 15:08 | 15:08 | 0:00 | 15:02 | Leung King Estate | Kwai Fong Station | 3 | | | | | | | |
| 58M | 58M/10 | (Depot) | 1624 | 58M/10/1 | Night | 58M/102/1 | Night | 15:14 | 15:14 | 0:00 | 15:34 | Leung King Estate | Leung King Estate | - | | | | | | | |
| 58M | 58M/504 | (Depot) | 69551 | 58M/504/1 | Morning | 58M/504/1 | Morning | 15:14 | 15:14 | 0:00 | 15:24 | Tuen Mun (South) Depot | Leung King Estate | - | | | | | | | |
| 58M | 58M/08 | (Depot) | 65489 | 58M/08/1 | Morning | 58M/104/1 | Night | 15:16 | 15:16 | 0:00 | 15:16 | Leung King Estate | Kwai Fong Station | 8 | | | | | | | |
| 58M | 58M/15 | (Depot) | 64381 | 58M/15/1 | Morning | 58M/15/1 | Morning | 15:24 | 15:24 | 0:00 | 15:44 | Leung King Estate | Tuen Mun (South) Depot | - | | | | | | | |

| Route | Bus | Vehicle | duty | Captain carried in | Duty of captain carried in | Captain carried away | Duty of captain carried away | Companion captain | Scheduled departure | Actual departure | In advance Delayed | Scheduled arrival | Arrival at midway station | Stop name | Expected remaining travelling time (minutes)Time | Arrived | Clocked- Start in point | Midway boarding station | End point | Contact OCC | Frequency |
|-------|--------|---------|----------|--------------------|----------------------------|----------------------|------------------------------|-------------------|---------------------|------------------|--------------------|-------------------|---------------------------|-------------------|--|---------|-------------------------|-------------------------|-----------|-------------|-----------|
| 58M | 58M/10 | (Depot) | 58M/01/1 | Night | 58M/01/1 | Night | 58M/01/1 | Night | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/12 | (Depot) | 58M/01/1 | Morning | 58M/01/1 | Morning | 58M/01/1 | Morning | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/06 | (Depot) | 58M/01/1 | Night | 58M/01/1 | Night | 58M/01/1 | Night | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/07 | (Depot) | 58M/01/1 | Morning | 58M/01/1 | Morning | 58M/01/1 | Morning | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/01 | (Depot) | 58M/01/1 | Night | 58M/01/1 | Night | 58M/01/1 | Night | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/05 | (Depot) | 58M/01/1 | Night | 58M/01/1 | Night | 58M/01/1 | Night | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/09 | (Depot) | 58M/01/1 | Night | 58M/01/1 | Night | 58M/01/1 | Night | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/11 | (Depot) | 58M/01/1 | Night | 58M/01/1 | Night | 58M/01/1 | Night | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/13 | (Depot) | 58M/01/1 | Morning | 58M/01/1 | Morning | 58M/01/1 | Morning | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/15 | (Depot) | 58M/01/1 | Morning | 58M/01/1 | Morning | 58M/01/1 | Morning | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/17 | (Depot) | 58M/01/1 | Morning | 58M/01/1 | Morning | 58M/01/1 | Morning | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/19 | (Depot) | 58M/01/1 | Night | 58M/01/1 | Night | 58M/01/1 | Night | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/21 | (Depot) | 58M/01/1 | Morning | 58M/01/1 | Morning | 58M/01/1 | Morning | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/23 | (Depot) | 58M/01/1 | Night | 58M/01/1 | Night | 58M/01/1 | Night | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/25 | (Depot) | 58M/01/1 | Night | 58M/01/1 | Night | 58M/01/1 | Night | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/27 | (Depot) | 58M/01/1 | Morning | 58M/01/1 | Morning | 58M/01/1 | Morning | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/29 | (Depot) | 58M/01/1 | Night | 58M/01/1 | Night | 58M/01/1 | Night | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |
| 58M | 58M/31 | (Depot) | 58M/01/1 | Morning | 58M/01/1 | Morning | 58M/01/1 | Morning | 14:01 | 14:01 | 0:00 | 14:14 | Kwai Fong Station | Leung King Estate | - | | | | | | |

Change departure time

Separate display for
different directions
Display only trips

Departure time of previous
trip prior to the trip
involving unavailable
staff/bus

Applicable to trip departed
from : to :
After advancing the trip
involving unavailable
staff/bus

☐ Departure time of next
trip
Departure time of all trips
afterwards

Execute

Apply formerly adjusted
travelling time:
58M closed with 7 buses
on weekdays (Thursday,
23 October)
58M closed with 7 buses
on weekdays (Monday, 6
October)

Board of Dispatcher

| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed |
|------------------|---|-------|----------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|
| Cheung Chi Leung | Staff unavailable to pick up bus | 58M | 02 | 60757 | 103065 | 13:45 | 14:45 | | 31653 | | | | | 58M | 02 | 14:52 | 58M | 02 | 14:52 |
| Cheung Chi Leung | Late arrival without reason | 6D | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | -- | -- | -- | -- | -- | -- |
| Cheung Chi Leung | Bus broken | 6D | 02 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Traffic accident | C39A | 05 | 85047 | LM2168 | 07:38 | 08:20 | | 31353 | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Overtime travelling | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | C43A | 08 | 70524 | MK5518 | 07:00 | 07:48 | 07:48 | 31381 | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

➔ Modified departure time and location of mid-way departure

Page 11 of 100

Apply formerly adjusted travelling time:
58M closed with 7 buses on weekdays (Thursday, 23 October)
58M closed with 7 buses on weekdays (Monday, 6 October)

**Illustration by Examples –
Delay of Arrival + Departure Regulation**

**ROM System Proposal
Control Center Operation**

→ When the BC presents the driver card again, information of next departure including departure time and location of mid-way departure will be shown

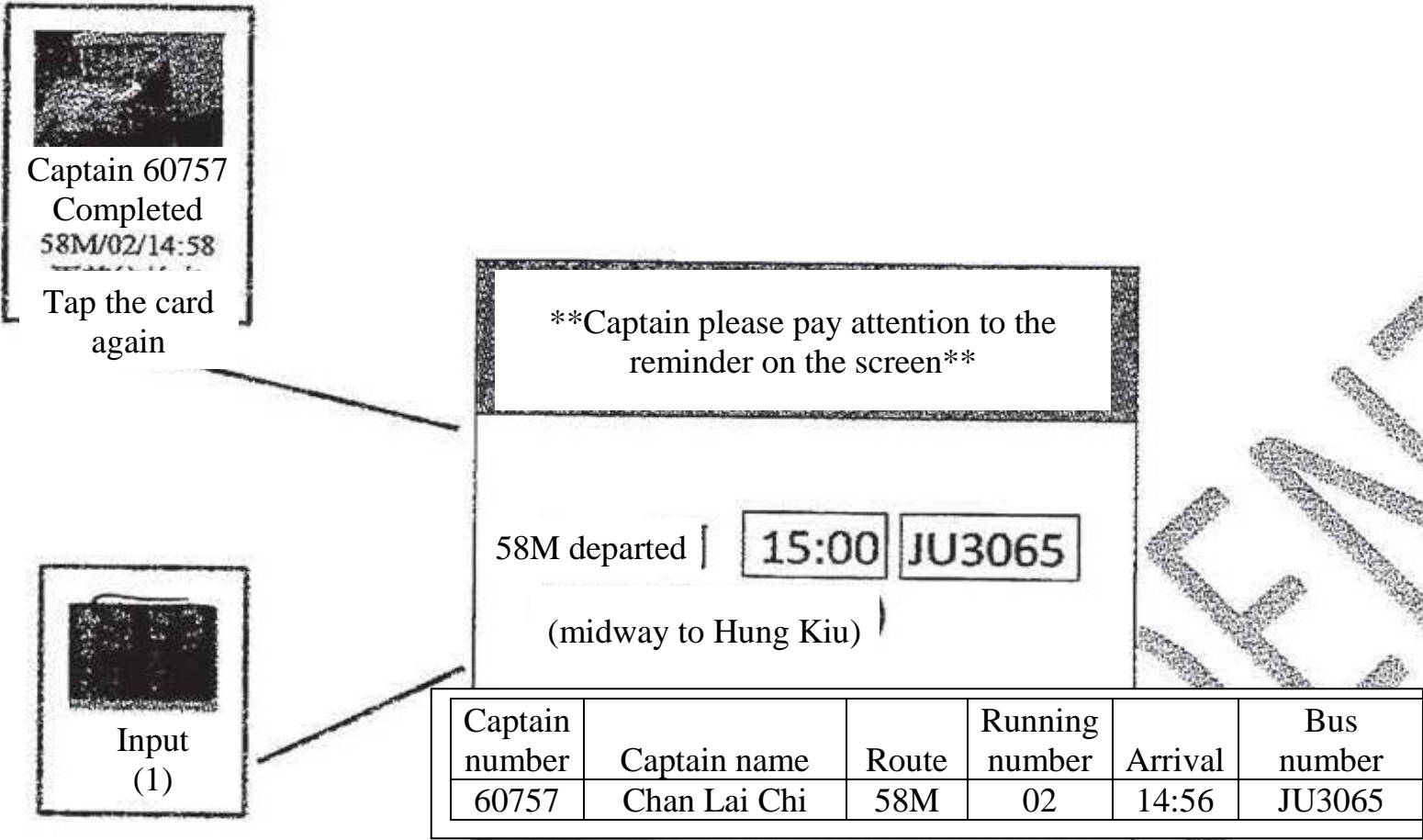


Illustration by Examples –
Delay of Arrival + Departure Regulation

ROM System Proposal
Control Center Operation

➔ After the BC has presented the driver card and obtain the departure information, the incident will be removed

| | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|------------------------|--------------------------------------|----------------|------------|----------------|-----------------------|---------------------|------------------|----------------------------|------------------|------------|-----|----------------------|----------------|----------|----------------------|----------------|----------|-------|
| Dispatcher | Cheung Chi Leung | Status of the incident | In process/Unconfirmed/Completed/All | | | | | | | | | | | | | | | | | |
| System time: 2014-08-01 14:56:12 | | | | | | | | | | | | | | | | | | | | |
| Board of Dispatcher | | | | | | | | | | | | | | | | | | | | |
| Dispatcher | Type of incident | Route | Running number | Captain number | Bus number | Departure time | Expected arrival time | Actual arrival time | Reference number | Overview of the travelling | Driving schedule | Line chart | Map | Trips affected (bus) | Running number | Departed | Trips affected (bus) | Running number | Departed | |
| Cheung Chi Leung | Staff unavailable to pick up bus | 05 | 65325 | KL6385 | 08:25 | 09:20 | 09:28 | 31675 | | | | | | | | | | | | |
| Cheung Chi Leung | Late arrival without reason | 05 | 62564 | HY754 | 11:45 | 12:45 | | 35216 | | | | | | | 6D | 02 | 15:10 | 6D | 02 | 15:10 |
| Cheung Chi Leung | Bus broken | 05 | | | 11:38 | 08:20 | | 31353 | | | | | | | C39A | 05 | 08:28 | C39A | 10 | 08:35 |
| Cheung Chi Leung | Traffic accident | 05 | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Overtime travelling | 05 | | | | | | | | | | | | | | | | | | |
| Cheung Chi Leung | Handling lost property – keep for future handling | 05 | | | | | | | | | | | | | | | | | | |
| | | 08 | | | | 07:00 | 07:48 | 07:48 | 31381 | | | | | | C43A | 08 | 07:55 | C43A | 08 | 07:55 |

| Route | To | Late | Early | -/0/+ | Longest delay | | Longest ahead of time | | Accumulated this month | Cumulative same-day lost trips rate | | | |
|-------|-------------------------|------|-------|--------|---------------|----------------|-----------------------|----------------|------------------------|-------------------------------------|--------------|--------------|--------------|
| | | | | | Minutes | Running number | Minutes | Running number | | Lost trips rate | 0500-1000 | 1000-1500 | 1500-2000 |
| 2A | Mei Foo | | | 0/3/2 | -4 | 06 | +5 | 105 | | | | | |
| | Lok Wah | | | 2/3/2 | -4 | 06 | +5 | 105 | 1.24% | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) | 2/59 (3.51%) |
| 6 | Mei Foo | | | 2/8/0 | -9 | 03 | +5 | 07 | 1.11% | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) | 1/51 (1.96%) |
| | Lai Chi Kok | | | 3/6/2 | -9 | 03 | +5 | 07 | | | | | |
| 6D | Mei Foo | | | 3/3/2 | -8 | 09 | +6 | 02 | 1.87% | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) | 0/39 (0%) |
| | Ngau Tau Kok | | | 1/5/2 | -8 | 09 | +6 | 02 | | | | | |
| 6X | Middle Road | | | 0/4/1 | | | +3 | 03 | 0 | 0/8 (0%) | - | - | - |
| 28 | Mody Road | | | 1/6/2 | -4 | 05 | +6 | 01 | 1.34% | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) | 2/47 (4.26%) |
| | Mody Road | | | 2/6/0 | -4 | 05 | +6 | 01 | | | | | |
| 38A | Mei Foo | | | 0/4/0 | | | | | 0.8% | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) | 1/8 (0%) |
| | Riviera Gardens | | | 0/4/0 | | | | | | | | | |
| 72 | Cheung Sha Wan | | | 3/5/1 | -4 | 05 | +11 | 09 | 2.55% | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) | 1/29 (3.45%) |
| | Tai Wo | | | 1/3/4 | -4 | 05 | +11 | 09 | | | | | |
| 86 | Mei Foo | | | 2/3/2 | -5 | 02 | +7 | 502 | 1.61% | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) | 0/36 (0%) |
| | Wong Nai Tau | | | 1/4/2 | -5 | 02 | +7 | 502 | | | | | |
| 6C | Mei Foo | | | 5/6/2 | -12 | 504 | +4 | 06 | 2.18% | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) | 3/71 (4.23%) |
| | Kowloon City Ferry Pier | | | 3/10/2 | -12 | 504 | +4 | 06 | | | | | |
| 30 | Cheung Sha Wan | | | 4/2/2 | -6 | 07 | +5 | 03 | 1.84% | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) | 2/24 (8.33%) |
| | Allway Garden | | | 2/7/0 | -6 | 07 | +5 | 03 | | | | | |

[Blank Page]

9. Contingency Measures

9.1 Operational Crisis

Operational crisis occurs under the situation such as typhoon when the demand pattern is distorted from normal to a very large extent but the system itself is fully operational.

The contingency measures against operational crisis are:

- 9.1.1 Departures will not be operated according to the timetable
- 9.1.2 The system will be switched to the “operational crisis” mode
- 9.1.3 BC still need to tap card at terminus
- 9.1.4 The departure time will be obtained from the telematics data
- 9.1.5 Dispatchers manually prepare a plan to restore the bus operation to adhere back to timetable
- 9.1.6 Disseminate the arrangement to BC via tap card or phone call

System aids for steps 10.1.5 and 10.1.6 will be provided in phase 2. These provisions must be in place before expanding the scale of ROM after phase 1 roll-out.

9.2 System Failure

ROM will adopt a distributed architecture so that bus captains can still obtain the next departure instructions when they tap card at the terminus PC to report arrival even if the host is encountering problem. The limitation is that information is only base on the schedule timetable plus any modifications made prior to the host failure time. It is so designed to maintain smooth bus operation even when the host is encountering problem.

We plan the contingency measures against system failure as follows:

A. Failure of terminus PC

Phase 1

- Bus captains call back OCC to obtain next departure instructions
- Assign an inspector to monitor at the terminus if necessary
- Issue heat call to replace the terminus PC

Phase 2

- Bus captains obtain next departure instructions via mobile app or phone call
- Assign an inspector to monitor at the terminus if necessary
- Issue heat call to replace the terminus PC

B. Failure of host system

B.1 ROM is not operational at an OCC only

Phase 1

- Print out the working timetable and give instructions to bus captains via phone
- Assign an inspectors to monitor at the termini if necessary
- Input back the updates into ROM from hard-copy after system resumes normal

Phase 2

- The problem OCC can switch to operate in stand-alone mode at the local site or be relocated to operate at a backup site. To be further discussed in phase 2 development

B.2 ROM is not operational at all OCC

Phase 1

Same as B.1

Phase 2

- OCC can switch to operate in stand-alone mode
- Dispatcher gives instructions to bus captains via phone and input changes in stand-alone mode
- Assign an inspector to monitor at the termini if necessary
- Data captured under stand-alone mode will be pushed back to host when it resumes normal

B.3 Telematics and ETA information is not available

- ETA will not be shown
- Buses with out-dated position will be dimmed
- Bus arrivals and departures will not be deduced from telematics data

CONFIDENTIAL

10. Development Schedule

10.1 Development Schedule and Description

ROM Phase 1 development schedule is proposed as follows:

| Task | Schedule |
|---------------------------------------|---|
| 1. Software Development | Sep 2014 – 22 nd May 2015 |
| 2. Define and Build System Interfaces | Sep 2014 – 31 st Jan 2015 |
| 3. Pre-UAT Inspection by Users | Dec 2014 – Apr 2015 |
| 4. User Training | 27 th Apr 2015 – 30 th Apr 2015 |
| 5. UAT at LCK | 4 th May 2015 – 12 th Jun 2015 |
| 6. Pilot Run at LCK | Start 15 th Jun 2015 |
| 7. Pilot Run at Other Depots | TBD |

Remarks:

1. For task 3 - Pre-UAT inspection by users, project team will demonstrate the system functions to users periodically to ensure the future system is in line with users' expectation
2. User training will be conducted at OCC
3. At UAT stage, departures are still managed by the terminus supervisors. During pilot run, departure management will be taken up by OCC

Appendix

Glossary

A.1 Glossary**BPS**

Stand for Best Practise Scheduling for bus operation. Generally bus hopping would be employed to a large extent under this practise

Dispatcher

The person who operates at the control centre and takes the current responsibilities of a terminus supervisor

ETA

Estimated time of arrival of the bus at a specific location

Headway

The time interval between successive departures of a route at a terminus

OCC

Operation Control Center

CONFIDENTIAL

A.2 Severity Score on Incident Board

Incident(s) displayed in incident board shall be in descending order of priority score where the scoring method shall be calculated as followed:

$$\text{Priority Score} = \text{Score A} + \text{Delay Time} + \text{Score}_{\text{Acknowledgment}}$$

$$\text{Where Score A} = \text{Score}_{\text{route}} + (\text{Score}_{\text{Demand}} \times \text{Score}_{\text{Frequency}})$$

Formula of each scoring elements:

| Scoring Elements | Formula |
|--|--|
| Score A | <ul style="list-style-type: none"> ➤ A score will be assigned to an incident based on its affected route ➤ $\text{Score}_{\text{route}} + \text{Score}_{\text{Demand}} \times \text{Score}_{\text{Frequency}}$ |
| $\text{Score}_{\text{route}}$ | <ul style="list-style-type: none"> ➤ Different score will be assigned to different route category <ul style="list-style-type: none"> ○ Route category shall classified as user defined and auto detect ○ User defined route category – corresponding route shall defined and provided by user ○ Auto detect route category – system shall auto detect corresponding route. (eg. Trip with fixed departure, first or last departure trip, BPS route, and vice versa Non-BPS route) |
| $\text{Score}_{\text{Demand}}$ | <ul style="list-style-type: none"> ➤ A score will be assigned to different range of demand. <ul style="list-style-type: none"> ○ Demand of a trip to be referenced by the occupancy of historical data. |
| $\text{Score}_{\text{Frequency}}$ | <ul style="list-style-type: none"> ➤ A score will be assigned to different frequency range. <ul style="list-style-type: none"> ○ A score will be assigned to different frequency range. |
| Delay Time | <ul style="list-style-type: none"> ➤ Expected/Actual Time of Delay of affected Bus/BC/Duty in minutes |
| $\text{Score}_{\text{Acknowledgment}}$ | <ul style="list-style-type: none"> ➤ 0: if incident has been acknowledged by dispatcher ➤ 50,000: if incident has not yet been acknowledged by dispatcher |

Priority of Routes

| Sequence | Routes | Abbreviation | Score |
|----------|--|--------------|--------|
| 1 | Special routes / Fixed departures / First or last departures | SPE | 10,000 |
| 2 | BPS routes | BPS | 0.2 |
| 3 | Non-BPS routes | N-BPS | 0.1 |

Priority of Demand

| Sequence | Demand | Score |
|----------|---------|-------|
| 1 | 81-100% | 10 |
| 2 | 61-80% | 4 |
| 3 | 41-60% | 3 |
| 4 | 21-40% | 2 |
| 5 | 0-20% | 1 |

Priority of Frequency

| Sequence | Frequency | Score |
|----------|--------------|-------|
| 1 | > 20 mins | 3 |
| 2 | 12 - 20 mins | 2 |
| 3 | ≤ 12 mins | 1 |

ROM System Proposal

Illustration of Effect of Severity Score on Incident Board:

→ Score A = Route + Demand x Frequency

| Route | Demand | Frequency | Score (Route) | Score (Demand) | Score (Frequency) | Score A |
|-------|---------|--------------|---------------|----------------|-------------------|----------|
| SPE | 81-100% | > 20 mins | 10,000 | 10 | 3 | 10,030.0 |
| SPE | 81-100% | 12 - 20 mins | 10,000 | 10 | 2 | 10,020.0 |
| SPE | 61-80% | > 20 mins | 10,000 | 4 | 3 | 10,012.0 |
| SPE | 81-100% | ≤12 mins | 10,000 | 10 | 1 | 10,010.0 |
| SPE | 41-60% | > 20 mins | 10,000 | 3 | 3 | 10,009.0 |
| SPE | 61-80% | 12 - 20 mins | 10,000 | 4 | 2 | 10,008.0 |
| SPE | 41-60% | 12 - 20 mins | 10,000 | 3 | 2 | 10,006.0 |
| SPE | 21-40% | > 20 mins | 10,000 | 2 | 3 | 10,006.0 |
| SPE | 61-80% | ≤12 mins | 10,000 | 4 | 1 | 10,004.0 |
| SPE | 21-40% | 12 - 20 mins | 10,000 | 2 | 2 | 10,004.0 |
| SPE | 41-60% | ≤12 mins | 10,000 | 3 | 1 | 10,003.0 |
| SPE | 0-20% | > 20 mins | 10,000 | 1 | 3 | 10,003.0 |
| SPE | 21-40% | ≤12 mins | 10,000 | 2 | 1 | 10,002.0 |
| SPE | 0-20% | 12 - 20 mins | 10,000 | 1 | 2 | 10,002.0 |
| SPE | 0-20% | ≤12 mins | 10,000 | 1 | 1 | 10,001.0 |
| BPS | 81-100% | > 20 mins | 0.2 | 10 | 3 | 30.2 |
| N-BPS | 81-100% | > 20 mins | 0.1 | 10 | 3 | 30.1 |
| BPS | 81-100% | 12 - 20 mins | 0.2 | 10 | 2 | 20.2 |
| N-BPS | 81-100% | 12 - 20 mins | 0.1 | 10 | 2 | 20.1 |
| BPS | 61-80% | > 20 mins | 0.2 | 4 | 3 | 12.2 |
| N-BPS | 61-80% | > 20 mins | 0.1 | 4 | 3 | 12.1 |
| BPS | 81-100% | ≤12 mins | 0.2 | 10 | 1 | 10.2 |
| N-BPS | 81-100% | ≤12 mins | 0.1 | 10 | 1 | 10.1 |
| BPS | 41-60% | > 20 mins | 0.2 | 3 | 3 | 9.2 |
| N-BPS | 41-60% | > 20 mins | 0.1 | 3 | 3 | 9.1 |
| BPS | 61-80% | 12 - 20 mins | 0.2 | 4 | 2 | 8.2 |
| N-BPS | 61-80% | 12 - 20 mins | 0.1 | 4 | 2 | 8.1 |
| BPS | 41-60% | 12 - 20 mins | 0.2 | 3 | 2 | 6.2 |
| BPS | 21-40% | > 20 mins | 0.2 | 2 | 3 | 6.2 |
| N-BPS | 41-60% | 12 - 20 mins | 0.1 | 3 | 2 | 6.1 |
| N-BPS | 21-40% | > 20 mins | 0.1 | 2 | 3 | 6.1 |
| BPS | 61-80% | ≤12 mins | 0.2 | 4 | 1 | 4.2 |
| BPS | 21-40% | 12 - 20 mins | 0.2 | 2 | 2 | 4.2 |
| N-BPS | 61-80% | ≤12 mins | 0.1 | 4 | 1 | 4.1 |
| N-BPS | 21-40% | 12 - 20 mins | 0.1 | 2 | 2 | 4.1 |
| BPS | 41-60% | ≤12 mins | 0.2 | 3 | 1 | 3.2 |
| BPS | 0-20% | > 20 mins | 0.2 | 1 | 3 | 3.2 |
| N-BPS | 41-60% | ≤12 mins | 0.1 | 3 | 1 | 3.1 |
| N-BPS | 0-20% | > 20 mins | 0.1 | 1 | 3 | 3.1 |
| BPS | 21-40% | ≤12 mins | 0.2 | 2 | 1 | 2.2 |
| BPS | 0-20% | 12 - 20 mins | 0.2 | 1 | 2 | 2.2 |
| N-BPS | 21-40% | ≤12 mins | 0.1 | 2 | 1 | 2.1 |
| N-BPS | 0-20% | 12 - 20 mins | 0.1 | 1 | 2 | 2.1 |
| BPS | 0-20% | ≤12 mins | 0.2 | 1 | 1 | 1.2 |
| N-BPS | 0-20% | ≤12 mins | 0.1 | 1 | 1 | 1.1 |

ROM System Proposal

Appendix

Severity Score on Incident Board

→ Final Score = Score A + Delay Time + Score_{Acknowledgment}

| Route | Demand | Frequency | Score A | Delay Time (mins) | Acknowledge | Final Score |
|-------|---------|--------------|----------|-------------------|-------------|-------------|
| SPE | 0-20% | ≤ 12 mins | 10,001.0 | 12 | No | 60,013.00 |
| SPE | 21-40% | 12 - 20 mins | 10,004.0 | 3 | No | 60,007.00 |
| N-BPS | 61-80% | 12 - 20 mins | 8.1 | 19 | No | 50,027.10 |
| BPS | 21-40% | > 20 mins | 6.2 | 12 | No | 50,018.20 |
| BPS | 81-100% | ≤ 12 mins | 10.2 | 1 | No | 50,011.20 |
| BPS | 21-40% | ≤ 12 mins | 2.2 | 6 | No | 50,008.20 |
| SPE | 81-100% | > 20 mins | 10,030.0 | 1 | Yes | 10,031.00 |
| SPE | 81-100% | 12 - 20 mins | 10,020.0 | 5 | Yes | 10,025.00 |
| SPE | 61-80% | > 20 mins | 10,012.0 | 5 | Yes | 10,017.00 |
| SPE | 41-60% | > 20 mins | 10,009.0 | 8 | Yes | 10,017.00 |
| SPE | 81-100% | ≤ 12 mins | 10,010.0 | 6 | Yes | 10,016.00 |
| SPE | 41-60% | ≤ 12 mins | 10,003.0 | 10 | Yes | 10,013.00 |
| SPE | 61-80% | 12 - 20 mins | 10,008.0 | 2 | Yes | 10,010.00 |
| SPE | 41-60% | 12 - 20 mins | 10,006.0 | 4 | Yes | 10,010.00 |
| SPE | 21-40% | > 20 mins | 10,006.0 | 2 | Yes | 10,008.00 |
| SPE | 61-80% | ≤ 12 mins | 10,004.0 | 3 | Yes | 10,007.00 |
| SPE | 0-20% | > 20 mins | 10,003.0 | 1 | Yes | 10,004.00 |
| SPE | 21-40% | ≤ 12 mins | 10,002.0 | 1 | Yes | 10,003.00 |
| SPE | 0-20% | 12 - 20 mins | 10,002.0 | 1 | Yes | 10,003.00 |
| BPS | 81-100% | > 20 mins | 30.2 | 20 | Yes | 50.20 |
| N-BPS | 81-100% | > 20 mins | 30.1 | 7 | Yes | 37.10 |
| BPS | 41-60% | 12 - 20 mins | 6.2 | 20 | Yes | 26.20 |
| N-BPS | 81-100% | 12 - 20 mins | 20.1 | 5 | Yes | 25.10 |
| BPS | 81-100% | 12 - 20 mins | 20.2 | 3 | Yes | 23.20 |
| N-BPS | 21-40% | ≤ 12 mins | 2.1 | 21 | Yes | 23.10 |
| N-BPS | 41-60% | ≤ 12 mins | 3.1 | 19 | Yes | 22.10 |
| N-BPS | 61-80% | > 20 mins | 12.1 | 9 | Yes | 21.10 |
| BPS | 61-80% | 12 - 20 mins | 8.2 | 11 | Yes | 19.20 |
| N-BPS | 21-40% | 12 - 20 mins | 4.1 | 15 | Yes | 19.10 |
| N-BPS | 0-20% | ≤ 12 mins | 1.1 | 18 | Yes | 19.10 |
| N-BPS | 81-100% | ≤ 12 mins | 10.1 | 8 | Yes | 18.10 |
| BPS | 0-20% | > 20 mins | 3.2 | 14 | Yes | 17.20 |
| BPS | 61-80% | > 20 mins | 12.2 | 4 | Yes | 16.20 |
| BPS | 41-60% | > 20 mins | 9.2 | 7 | Yes | 16.20 |
| N-BPS | 41-60% | > 20 mins | 9.1 | 7 | Yes | 16.10 |
| N-BPS | 41-60% | 12 - 20 mins | 6.1 | 9 | Yes | 15.10 |
| BPS | 41-60% | ≤ 12 mins | 3.2 | 11 | Yes | 14.20 |
| BPS | 0-20% | ≤ 12 mins | 1.2 | 13 | Yes | 14.20 |
| N-BPS | 0-20% | 12 - 20 mins | 2.1 | 10 | Yes | 12.10 |
| BPS | 21-40% | 12 - 20 mins | 4.2 | 5 | Yes | 9.20 |
| BPS | 0-20% | 12 - 20 mins | 2.2 | 7 | Yes | 9.20 |
| N-BPS | 21-40% | > 20 mins | 6.1 | 3 | Yes | 9.10 |
| N-BPS | 0-20% | > 20 mins | 3.1 | 5 | Yes | 8.10 |
| N-BPS | 61-80% | ≤ 12 mins | 4.1 | 3 | Yes | 7.10 |
| BPS | 61-80% | ≤ 12 mins | 4.2 | 1 | Yes | 5.20 |

Priority Score on Resources Availability**A.3 Priority Score on Resources Availability**

According to user selected duty trip and specific selection criteria (if any), system shall nominate a set of feasible resources (Bus Captains and/or Buses) together with supplementary information for dispatchers making their decision. Nominated resources shall be displayed in descending order of a priority score which shall be defined as followed:

Weighting Scheme:

$$\text{Score}_{\text{bus}} = \text{Score}_{\text{Route}} \sum (\text{quantifier}_{\text{Route}} \times \text{weight}_{\text{Route}}) + \text{Score}_{\text{Bus}} \sum (\text{quantifier}_{\text{Bus}} \times \text{weight}_{\text{Bus}})$$

$$\text{Score}_{\text{BC}} = \text{Score}_{\text{Route}} \sum (\text{quantifier}_{\text{Route}} \times \text{weight}_{\text{Route}}) + \text{Score}_{\text{BC}} \sum (\text{quantifier}_{\text{BC}} \times \text{weight}_{\text{BC}})$$

User shall define a configurable minimum score for both categories

Shall any calculated score which under the minimum score should not be recommended

| Route Constrains | Condition | Quantifier | Weight |
|------------------|--|---|--------------------|
| High freq. Route | If route is high freq. Route | 1 | Configurable |
| demand | A score will be assigned to different range of demand. Demand of a trip to be referenced by the occupancy of historical data (remarks: highest demand with highest score) | Average occupancy % | Configurable (-ve) |
| Vicinity | If vicinity less than 1 KM | 1 or 0 | Configurable |
| Lost trip % | Lost trip % of the day | Lost trip % | Configurable (-ve) |
| Complaint figure | complaint figure within one month | complaint figure of the route / complaint figure of all route | Configurable (-ve) |

| Bus Consideration | Condition | Quantifier | Weight |
|-------------------------|---|------------------------|--------------------------------|
| Idle Bus | Bus without assignment | 1 | Configurable |
| Bus Route feasibility | Bus type/Route feasibility (all routes within duty) | Nil | Must comply |
| Bus Captain feasibility | Bus type/BC feasibility (all BC who operate this bus duty) | Nil | Must comply |
| Affected Duties | no. of affected duties if Bus pull out of original duty | no. of affected duties | Configurable |
| parking violation | Actual Sign-off location un-matched with scheduled parking location | Nil | Warning but allow force update |
| Order violation | Sign-off location violate order location if any | Nil | Warning but allow force update |

ROM System Proposal
Appendix

Priority Score on Resources Availability

| Bus Captain Consideration | Condition | Quantifier | Weight |
|----------------------------------|---|-------------------|--------------------------------|
| Idle Bus Captain | Standby BC | 1 | Configurable |
| Bus Type feasibility | BC / bus type feasibility (all BC who operate this bus duty) | Nil | Must Comply |
| Bus Route feasibility | BC / bus route feasibility (all BC who operate this bus duty) | Nil | Must Comply |
| Working Guidelines (A - E) | Refer to Appendix A.4 for details | Nil | Warning but allow force update |
| Affected Duties | no. of affected duties if BC pull out of original duty | Nil | Warning but allow force update |

Working Guidelines on Bus Captain**A.4 Guidelines on Bus Captain – Working Hours, Rest Times and Meal Breaks****Guidelines on Bus Captain**
Working Hours, Rest Times and Meal Breaks**(Revised in October 2010)**

- Guideline A** - Bus captains should have a *rest time*¹ of at least 30 minutes after 6 hours of duty and within that 6-hour duty, they should have *rest times* of 20 minutes of which no less than 12 minutes should be within the first 4 hours of duty. *The time bus captains spend at a terminal point preparing for the next departure and monitoring passenger boarding should not be regarded as rest time.*
- Guideline B** - Maximum duty (including all *rest times*) in a *working day* should not exceed 14 hours.
- Guideline C** - Driving duty (i.e. maximum duty less all *rest times* each of 30 minutes or more) in a *working day* should not exceed 11 hours.
- Guideline D** - The break between successive working days should not be less than 70 hours.
- Guideline E** - *Bus captains working for a duty of not less than 8 hours in a working day should have a meal break. Bus companies should complete the improvement of meal breaks to no less than 45 minutes by the third quarter of 2011, and further improvement to no less than one hour in one year thereafter.*

1. *that break is also regarded as rest time.*

The Kowloon Motor Bus Co. (1933) Ltd.

MEMORANDUM

To : Distribution

Date : 19 December 2014

From : ROM Project Leader
Information Technology Department

Ref. : MM/ADD/14017

Real-time Operations Management System (ROM) Project Status

Development of ROM is underway and the progress is on schedule. Project Team will invite management and end users in December to have a look and feel on some core functions so that comments can be collected at early stage to ensure the development is on the right track.

Project Team is finishing the capacity planning report. The report will recommend the infrastructure upgrade which is necessary for running ROM. Procurement will start immediately after presentation of the report to management.

Digital Map sourcing is still in progress. We target to start the tendering process in December.

System interfaces are expected to be ready by end of Feb 2015 except TER where the expected completion date is mid Mar 2015.

Should you have any queries, please feel free to contact me at [REDACTED]

Thank you for your attention.



Chung-lim Chan**Distribution**

Operations Director
Head of Traffic Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
General Manager, Long Win Bus Co. Ltd.

The Kowloon Motor Bus Co. (1933) Ltd.

MEMORANDUM

To : Distribution

Date : 14 January 2015

From : ROM Project Leader
Information Technology Department

Ref. : MM/ADD/15001

Real-time Operations Management System (ROM) Project Status

Project Team had invited management and users to preview some core functions of ROM in December as as to ensure that the future system is in line with user expectation. Project team will invite users to have 2nd preview by end of this month.

Development of the system and the interfaces is underway. The progress is on schedule.

Last month Project Team finalised the requirements on hardware, software and Digital Map which are necessary for ROM. The procurement process already started early this month.

Should you have any queries, please feel free to contact me at [REDACTED]

Thank you for your attention.



Chung-lim Chan**Distribution**

Operations Director
Head of Traffic Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
General Manager, Long Win Bus Co. Ltd.

The Kowloon Motor Bus Co. (1933) Ltd.

MEMORANDUM

To : Distribution

Date : 13 February 2015

From : ROM Project Leader
Information Technology Department

Ref. : MM/ADD/15002

Real-time Operations Management System (ROM) Project Status


Last month Project Team conducted 2nd preview of ROM core functions with users. The preview helps very much to ensure the future system is in line with user expectation.

Development of the system and the interfaces is underway. The progress is on schedule.

Purchasing Department had issued the purchase orders last month for system hardware, software and Digital Map which are required by ROM. The scheduled delivery date fits with ROM project schedule. The Digital Map is acquired from ESRI and is for corporate use, not limited to ROM project.

Should you have any queries, please feel free to contact me at [REDACTED].

Thank you for your attention.



Chung-lim Chan

Distribution

Operations Director
Head of Traffic Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
General Manager, Long Win Bus Co. Ltd.

cc Ms. Alice Wong (ODO Office)
Mr. Terry Lo (Traffic Department)
Mr. Yik-sing Kwok (Kowloon Bay Depot)
Mr. Ken Wong (Lai Chi Kok Depot)
Mr. Chris Lo (Shatin Depot)
Mr. Kelvin Yeung (Tuen Mun Depot)
Mr. Kelvin Mak (Long Win Bus Co. Ltd.)
Ms. Catherine Yip (Head of Information Technology Department)
Mr. Michael Lee (Principal Systems Analyst, Information Technology Department)

The Kowloon Motor Bus Co. (1933) Ltd.

MEMORANDUM

To : Distribution

Date : 25 March 2015

**From : ROM Project Leader
Information Technology Department**

Ref. : MM/ADD/15004

Real-time Operations Management System (ROM) Project Status

Development of the system and the interfaces is underway. As a core developer of our team had been assigned to handle other projects since last month, we have to delay the project delivery date for around one month. The revised schedule will be:

- User training for LCK - 1st week of June 2015
- UAT at LCK - 2nd week of June 2015 to end of July 2015
- Pilot run at LCK - Starting from 1st week of August 2015

The system hardware and software had been delivered to us last month. Set up is in progress.

As for Digital Map, user requirements have been finalised. Vendor is carrying out the customization work. Initial load will take place from May to July 2015.

Project Team will conduct 3rd preview of ROM core functions with users at early April.

Should you have any queries, please feel free to contact me at [REDACTED].

Thank you for your attention.



Chung-lim Chan

Distribution

Operations Director
Head of Traffic Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
Operations & Project Director, Long Win Bus Co. Ltd.

cc Ms. Alice Wong (ODO Office)
Mr. Terry Lo (Traffic Department)
Mr. Yik-sing Kwok (Kowloon Bay Depot)
Mr. Ken Wong (Lai Chi Kok Depot)
Mr. Chris Lo (Shatin Depot)
Mr. Kelvin Yeung (Tuen Mun Depot)
Mr. Kelvin Mak (Long Win Bus Co. Ltd.)
Ms. Catherine Yip (Head of Information Technology Department)
Mr. Michael Lee (Principal Systems Analyst, Information Technology Department)

The Kowloon Motor Bus Co. (1933) Ltd.
MEMORANDUM

To : Distribution

Date : 16 April 2015

**From : ROM Project Leader
 Information Technology Department**

Ref. : MM/ADD/15005

Real-time Operations Management System (ROM) Project Status

Development of the system and the interfaces is underway but the participation of 2 members of our team is being significantly reduced to take up ETA support. This is due to the resignation of a core member in the ETA project.


The 3rd round of user demo has been conducted early this month. In addition to the discussion on the core functions, Project Leader also proposed a roll-out plan such that ROM will be delivered in 5 stages starting from early July 2015 and become fully operational by the end of October 2015. Non-critical reports will be delivered after October 2015. This is so proposed to minimize the impact on the project schedule due to our manpower shortage. The detailed roll-out plan is still to be worked out by users and Project Team.

As for Digital Map, 30% of API has been delivered to us. We have emphasised to vendor that all API and the map editing tool must be delivered by the end of April 2015.

Project Team will conduct 4th preview of ROM core functions with users in early May.

Should you have any queries, please feel free to contact me at [REDACTED]

Thank you for your attention.



 Chung-lim Chan

Distribution

Operations Director
 Head of Traffic Department
 Senior Manager, Operations, Kowloon Bay Depot
 Senior Manager, Operations, Lai Chi Kok Depot
 General Manager, Shatin Depot
 General Manager, Tuen Mun Depot
 Operations & Project Director, Long Win Bus Co. Ltd.

cc Ms. Alice Wong (ODO Office)
Mr. Terry Lo (Traffic Department)
Mr. Yik-sing Kwok (Kowloon Bay Depot)
Mr. Ken Wong (Lai Chi Kok Depot)
Mr. Chris Lo (Shatin Depot)
Mr. Kelvin Yeung (Tuen Mun Depot)
Mr. Kelvin Mak (Long Win Bus Co. Ltd.)
Ms. Catherine Yip (Head of Information Technology Department)
Mr. Michael Lee (Principal Systems Analyst, Information Technology Department)

The Kowloon Motor Bus Co. (1933) Ltd.

MEMORANDUM

To : Distribution

Date : 13 May 2015

**From : ROM Project Leader
Information Technology Department**

Ref. : MM/ADD/15006

Real-time Operations Management System (ROM) Project Status


The programming work is near completion except the reports which will be delivered in Q4 this year as mentioned last month. Project Team will carry out an integration test on the system in June before roll out in July.

Last round of user demo will be conducted on 21 May 2015. User acceptance test plan and requirements on driver console will also be discussed that day.

As for Digital Map, API has been delivered in April and is under testing by Project Team. The delivery of the map editing module has been overdue for 2 weeks and is still outstanding. Project Team is liaising with vendor to commit on the delivery of the module.

Should you have any queries, please feel free to contact me at [REDACTED].

Thank you for your attention.



Chung-lim Chan

Distribution

Operations Director
Head of Operations Development Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
Operations & Project Director, Long Win Bus Co. Ltd.

cc Ms. Alice Wong (Operations Development Department)
Mr. Terry Lo (Operations Development Department)
Mr. Yik-sing Kwok (Kowloon Bay Depot)

Mr. Ken Wong (Lai Chi Kok Depot)
Mr. Chris Lo (Shatin Depot)
Mr. Kelvin Yeung (Tuen Mun Depot)
Mr. Kelvin Mak (Long Win Bus Co. Ltd.)
Ms. Catherine Yip (Head of Information Technology Department)
Mr. Michael Lee (Principal Systems Analyst, Information Technology Department)

The Kowloon Motor Bus Co. (1933) Ltd.

MEMORANDUM

To : Distribution

Date : 15 June 2015

**From : ROM Project Leader
Information Technology Department**

Ref. : MM/ADD/15007

Real-time Operations Management System (ROM) Project Status

Project team is carrying out integration test on the system and expect to complete early next month.

Meanwhile Project Team is also planning for UAT (User Acceptance Test) which should start in 2nd week of July. A meeting had been held on 11 June to discuss with users on the first draft of the UAT plan. Project Team will finalise the UAT plan two weeks before the UAT starts.

As for Digital Map, the delivery of the map editing module is still overdue. Project Team is liaising with ESRI to deliver an interim version sufficient for users to perform initial loading so as to avoid further delay on the website route search project which is responsible by the same vendor.

Should you have any queries, please feel free to contact me at [REDACTED]

Thank you for your attention.



Chung-lim Chan

Distribution

Operations Director
Head of Operations Development Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
Operations & Project Director, Long Win Bus Co. Ltd.

cc Ms. Alice Wong (Operations Development Department)
Mr. Terry Lo (Operations Development Department)
Mr. Yik-sing Kwok (Kowloon Bay Depot)
Mr. Ken Wong (Lai Chi Kok Depot)
Mr. Chris Lo (Shatin Depot)
Mr. Kelvin Yeung (Tuen Mun Depot)
Mr. Kelvin Mak (Long Win Bus Co. Ltd.)
Ms. Catherine Yip (Head of Information Technology Department)
Mr. Michael Lee (Principal Systems Analyst, Information Technology Department)

The Kowloon Motor Bus Co. (1933) Ltd.

MEMORANDUM

To : Distribution

Date : 16 July 2015

**From : ROM Project Leader
Information Technology Department**

Ref. : MM/ADD/15008

Real-time Operations Management System (ROM) Project Status

Project Team had completed integration test of the system and finalised the User Acceptance Test (UAT) plan with users in June.


UAT stage 1 is now in progress at the Operation Control Center (OCC) in Lai Chi Kok Depot as planned. Dispatchers now use TER system to manage the operation, assisted by some ROM functions.

Stage 2 operation will start on 20 July 2015 where more ROM functions will be released. Stage 3 will start in 2nd week of August 2015 where dispatchers will start the trial on the departure management tools of ROM which target to replace TER system.

As for Digital Map, an interim version of the map editing tool has been delivered to us in 2nd week of July 2015. Depots will confirm by 17 July whether this version is sufficient for initial loading.

Should you have any queries, please feel free to contact me at [REDACTED]

Thank you for your attention.


Chung-lim Chan

Distribution

Operations Director
Head of Operations Development Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
Operations & Project Director, Long Win Bus Co. Ltd.

cc Ms. Alice Wong (Operations Development Department)
Mr. Terry Lo (Operations Development Department)
Mr. Yik-sing Kwok (Kowloon Bay Depot)
Mr. Ken Wong (Lai Chi Kok Depot)
Mr. Chris Lo (Shatin Depot)
Mr. Kelvin Yeung (Tuen Mun Depot)
Mr. Kelvin Mak (Long Win Bus Co. Ltd.)
Ms. Catherine Yip (Head of Information Technology Department)
Mr. Michael Lee (Principal Systems Analyst, Information Technology Department)

The Kowloon Motor Bus Co. (1933) Ltd.

MEMORANDUM

To : Distribution

Date : 17 September 2015

From : ROM Project Leader
Information Technology Department

Ref. : MM/ADD/15010

Real-time Operations Management System (ROM) Project Status

User Acceptance Test (UAT) of ROM is proceeding at stage 3 which is the most critical stage in which we are attempting to replace TER for the selected routes. We are now 2.5 weeks behind in the UAT schedule owing to the amount of bug fixes and fine tunings which is quite higher than that we expected. Project Team will strive to prevent further delay in the UAT schedule.

As for Digital Map, ESRI has assisted to draw the routing lines for KMB so as to catch up the delay. The drawing is very near completion (over 99%) and the lines drawn are being verified by Depots. The map editor and Application Program Interfaces (API) will be delivered by the end of this month.

Should you have any queries, please feel free to contact me at [REDACTED].

Thank you for your attention.



Chung-lim ChanDistribution

Operations Director
Head of Operations Development Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
Operations & Project Director, Long Win Bus Co. Ltd.

cc Ms. Alice Wong (Operations Development Department)
Mr. Terry Lo (Operations Development Department)
Mr. Yik-sing Kwok (Kowloon Bay Depot)
Mr. Ken Wong (Lai Chi Kok Depot)

Mr. Chris Lo (Shatin Depot)
Mr. Kelvin Yeung (Tuen Mun Depot)
Mr. Kelvin Mak (Long Win Bus Co. Ltd.)
Ms. Catherine Yip (Head of Information Technology Department)

The Kowloon Motor Bus Co. (1933) Ltd.

MEMORANDUM**To : Distribution****Date : 26 October 2015****From : ROM Project Leader
Information Technology Department****Ref. : MM/ADD/15011****Real-time Operations Management System (ROM) Project Status**

Project Team and LCK Depot have concluded that ROM System is sufficient to replace TER System in departure management for 3 routes: 5A, 108 and 37M. Review meeting will be conducted on 30 Oct to discuss on adding more routes in the UAT to meet the target of having 12 routes managed by ROM by the end of this year.

As requested by ODD, ROM will be shortly deployed to 5 termini to assist terminus supervisors in departure management.

As for digital map, the initial loading of spatial data has been completed early this month. The map editor and Application Program Interfaces (API) are near completion.

Should you have any queries, please feel free to contact me at [REDACTED]

Thank you for your attention.



Chung-lim Chan

Distribution

Operations Director
Head of Operations Development Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
Operations & Project Director, Long Win Bus Co. Ltd.

cc Ms. Alice Wong (Operations Development Department)
Mr. Yik-sing Kwok (Kowloon Bay Depot)
Mr. Ken Wong (Lai Chi Kok Depot)
Mr. Chris Lo (Shatin Depot)

Mr. Kelvin Yeung (Tuen Mun Depot)

Mr. Kelvin Mak (Long Win Bus Co. Ltd.)

Ms. Catherine Yip (Head of Information Technology Department)

The Kowloon Motor Bus Co. (1933) Ltd.

MEMORANDUM

To : Distribution

Date : 17 December 2015

From : ROM Project Leader
Information Technology Department

Ref. : MM/ADD/15012

Real-time Operations Management System (ROM) Project Status

The bus tracking function of ROM had been released to Customer Service Department in November for Octopus overcharge claim investigation. This month we have enabled 7 termini to view the Line Diagram of ROM so that terminus supervisors can also gain the benefits of ROM.

In addition, a total of 11 tablets will be ready within this month to run the Mapview function of ROM. They will be delivered to inspectors as a mobile aid in monitoring the daily operation. It will help especially when service disruption occurs.

Route 44 had been added to the testing sample in November. Dispatchers are already accustomed to the new system and ready to abandon the old TER system shortly in the management of the selected routes.

As for digital map, the map editor is still pending. Project Team has given final warning to ESRI that penalty action will be taken in case of further delay.

Should you have any queries, please feel free to contact me at [REDACTED]

Thank you for your attention.



Chung-lim ChanDistribution

Deputy Operations Director (Mr. Leung Kin Wang)
Head of Operations Development Department
Senior Manager, Operations, Kowloon Bay Depot
Senior Manager, Operations, Lai Chi Kok Depot
General Manager, Shatin Depot
General Manager, Tuen Mun Depot
Operations & Project Director, Long Win Bus Co. Ltd.

cc Ms. Alice Wong (Operations Development Department)
Mr. Terry Lo (Kowloon Bay Depot)
Mr. Ken Wong (Lai Chi Kok Depot)
Mr. Chris Lo (Shatin Depot)
Mr. Kelvin Yeung (Tuen Mun Depot)
Mr. Kelvin Mak (Long Win Bus Co. Ltd.)

From: Louisa Lam ODD
Sent: Wednesday, February 03, 2016 11:16 AM
To: Chung Lim Chan IT; Tak Hung Shum IT
Cc: Kin Wang Leung SER; Jonathan Chiu IT
Subject: Addition of Line Chart, Map and Bus Tracking Functions to TER System

Dear both,

The Line Chart function of Real-time Operations Management System has been deployed to 7 termini since December 2015 and we received very positive feedback from the frontline staff. We concluded that the following benefits are gained from the Line Chart function:

- Better resources utilization – terminus supervisors obtain a better picture of the overall resources and are able to regulate the departures with optimal headway
- Better lost trip control – better knowledge of the overall resources also facilitate terminus supervisors to compensate the lost trip of a time zone by adjusting the departure time

Apart from the Line Chart, it is anticipated that the Map View, Small Map and Bus Tracking functions of the System can further facilitate terminus supervisors' work, as these functions provide real-time bus position and traffic information to help terminus supervisors make the service adjustment decisions. We therefore request the Line Chart function, together with the above-said functions if feasible, be deployed to as many attended TER sites as possible and as soon as practicable.

Please advise the deployment plan for our corresponding briefing and training arrangement. Many thanks for your prompt arrangement.


Regards,
Louisa Lam
Senior Manager, Transport



From: Louisa Lam ODD
Sent: Thursday, February 25, 2016 1:54 PM
To: Chung Lim Chan IT
Subject: FW: Addition of Line Chart, Map and Bus Tracking Functions to TER System

Dear Lim,

Owing to change of scope of the Real-time Operations Management System, we would like to rename the said project to "Fleet Management Information System (FMI)" with immediate effect. Please arrange for the necessary formalities if you have no objection to such renaming.

Regards,
Louisa Lam
Senior Manager, Transport


From: Chung Lim Chan IT
Sent: Thursday, February 25, 2016 2:29 PM
To: Grace Woo IT; Joey Fong IT; Jason Leung IT
Cc: Jonathan Chiu IT; Ivan Lam IT
Subject: FW: Addition of Line Chart, Map and Bus Tracking Functions to TER System

Dear Team

Please arrange to rename the application 'ROM' to 'FMI' as suggested by ODD. Please see attached emails for detail.

Please release the captioned functions to termini after renaming. For map view, please roll out progressively to observe the bandwidth consumption.

Thanks and regards
Lim

TO : Head of Information Technology Department
 FROM : Shatin Depot - Operations
 DATE : 23/10/2017

Application for Project Production Facilities

Project ID: FMI

1. ☒ Add the following LAN a/cs in accessing the project:

(please also specify employee number of LAN a/c owner)
 Chak Fung LI (23276)

Endorsed By**
 (Head of HR Department)

** Remark : Required for Human Resources Management / Payroll projects that relate to personal data privacy.

2. ☐ Remove the following LAN a/cs from accessing the project:

| |
|--|
| |
|--|

3. ☐ Assign the Master Password Holder to:

| | | |
|-------|--------|--|
| Name: | Title: | Endorsed By (Head of Department) |
| | |  Project Co-ordinator |
| | | |

For IT internal use only

Project Team

Create/Remove the above accounts in DB Server: _____ with access to database _____

- ☐ Create/Increase database size with/to _____ Mb on DATA segment and _____ Mb on LOG segment.
- ☐ Prepare Project Local Deployment (WAL)
- ☐ Other Requirments: _____
- ☐ Reset the application password expiry date as ____/____/____ (dd/mm/yy) (to be performed by project team)

** Remark : Production and development Databases will be identical in size and structure, unless otherwise specified.

Effective from _____

 Lead Project Manager

 Date

TSD & Project Team

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> created production group | <input type="checkbox"/> created project database | <input type="checkbox"/> created NAL App. Obj. | <input type="checkbox"/> increased DB size |
| <input type="checkbox"/> added user to production group | <input type="checkbox"/> added DB Server logins | <input type="checkbox"/> removed NAL App. Obj. | <input type="checkbox"/> associated DB server logins to DB |
| <input type="checkbox"/> deleted user from production group | <input type="checkbox"/> removed DB Server logins | <input type="checkbox"/> assigned master password holder | |

others: _____

 Date

 Handled By

TO : Head of Information Technology Department
 FROM : Shatin Depot - Operations
 DATE : 15/9/2017

Application for Project Production Facilities

Project ID: FMI

1. ☒ Add the following LAN a/cs in accessing the project:

(please also specify employee number of LAN a/c owner)

Ho. Lam S(11/11/17) (51676)

Endorsed By**

(Head of HR Department)

** Remark : Required for Human Resources Management / Payroll projects that relate to personal data privacy.

2. ☐ Remove the following LAN a/cs from accessing the project:

| |
|--|
| |
|--|

3. ☐ Assign the Master Password Holder to:

| | | |
|-------|--------|--|
| Name: | Title: | Endorsed By (Head of Department) |
| | |  Project Co-ordinator |

For IT internal use only

Project Team

Create/Remove the above accounts in DB Server: _____ with access to database _____

☐ Create/Increase database size with/to _____ Mb on DATA segment and _____ Mb on LOG segment.

☐ Prepare Project Local Deployment (WAL)

☐ Other Requirments: _____

☐ Reset the application password expiry date as ____/____/____ (dd/mm/yy) (to be performed by project team)

** Remark : Production and development Databases will be identical in size and structure, unless otherwise specified.

Effective from _____

Lead Project Manager

Date

TSD & Project Team

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> created production group | <input type="checkbox"/> created project database | <input type="checkbox"/> created NAL App. Obj. | <input type="checkbox"/> increased DB size |
| <input type="checkbox"/> added user to production group | <input type="checkbox"/> added DB Server logins | <input type="checkbox"/> removed NAL App. Obj. | <input type="checkbox"/> associated DB server logins to DB |
| <input type="checkbox"/> deleted user from production group | <input type="checkbox"/> removed DB Server logins | <input type="checkbox"/> assigned master password holder | |

others: _____

Date

Handled By

TO : Head of Information Technology Department
 FROM : Shatin Depot, Operations
 DATE : 25 August 2017

Application for Project Production Facilities

Project ID: FMI

1. ☒ Add the following LAN a/cs in accessing the project:

| | | |
|--|---------------------------|--|
| (please also specify employee number of LAN a/c owner) | | Endorsed By** (Head of HR Department) |
| 51664 Wong Yin Wai (ATS) | 51652 Cheng Ka Wing (ATS) | |


** Remark : Required for Human Resources Management / Payroll projects that relate to personal data privacy.

2. ☐ Remove the following LAN a/cs from accessing the project:

| |
|--|
| |
|--|

3. ☐ Assign the Master Password Holder to:

| | | |
|-------|--------|-------------------------------------|
| Name: | Title: | Endorsed By (Head of Department) |
| | | |


 Project Co-ordinator

For IT internal use only

Project Team

Create/Remove the above accounts in DB Server: _____ with access to database _____

- ☐ Create/Increase database size with/to _____ Mb on DATA segment and _____ Mb on LOG segment.
- ☐ Prepare Project Local Deployment (WAL)
- ☐ Other Requirments: _____
- ☐ Reset the application password expiry date as ____/____/____ (dd/mm/yy) (to be performed by project team)

** Remark : Production and development Databases will be identical in size and structure, unless otherwise specified.

Effective from _____

Lead Project Manager

Date

TSD & Project Team

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> created production group | <input type="checkbox"/> created project database | <input type="checkbox"/> created NAL App. Obj. | <input type="checkbox"/> increased DB size |
| <input type="checkbox"/> added user to production group | <input type="checkbox"/> added DB Server logins | <input type="checkbox"/> removed NAL App. Obj. | <input type="checkbox"/> associated DB server logins to DB |
| <input type="checkbox"/> deleted user from production group | <input type="checkbox"/> removed DB Server logins | <input type="checkbox"/> assigned master password holder | |

others: _____

Date

Handled By

| Name | Position at such material time |
|-------------------|--|
| James Louey CD | Commercial Director |
| Evan Auyang DMD | Deputy Managing Director |
| Susanna Wong HR | Head of Human Resources Department |
| Wendy Siu TR | Head of Traffic Department |
| Ho Chi Man HD | Head of Depots |
| Kin Keung Woo TM | General Manager of Tuen Mun Depot |
| Siu Hung Fung ST | General Manager of Shatin Depot |
| Andrew Kwan LCK | Senior Manager of Operations, Lai Chi Kok Depot |
| Andrew Kwan ST | Senior Manager of Operations, Shatin Depot |
| Catherine Yip IT | Senior Manager of Information Technology Department |
| Kwok Ho Yeung KB | Senior Manager of Operations, Kowloon Bay Depot |
| Louisa Lam ODD | Senior Manager of Transport Section, Operations Development Department |
| Ivan Au Pro | Senior Manager of Procurement Department |
| Chun Kin Chan SER | Senior Engineer of Engineering Office |
| Jason Leung IT | Senior programmer Analyst of Information Technology Department |
| Chung Lim Chan IT | Principal Systems Analyst of Information Technology Department |
| Joey Fong IT | System Analyst of Information Technology Department |
| Grace Woo IT | Systems Analyst of Information Technology Department |
| Alice Wong ODO | Assistant Manager of Projects Section, Operation Director Office |
| Jeff Poon LWB | Assistant Manager of Transport Operations Section, Long Win Bus |
| Jeff Poon LCK | Assistant Manager of Traffic Operations, Lai Chi Kok Depot |
| Terry Lo TR | Assistant Manager of Operations Projects Section, Traffic Department |
| Virginia Lam PUR | Assistant Manager of Purchasing Department |
| Winnie SF Ho CFM | Assistant Manager of Administration Section, Commercial and Facilities Management Department |
| Kelvin Yeung PUR | Assistant officer of Purchasing Department |

內部通告

嚴禁擅自加裝、改動或干擾設備

公司一向嚴禁員工擅自在巴士上加裝、改動或干擾任何設備或儀器。車長如發現請通知款待處，並填寫砵車報告以便跟進。站長、車務督察及維修組同事會進行突擊抽查，如有發現違規者，將予以紀律處分。

特此通告

全體車長及有關員工留意及執行





九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

4.1
乘客諮詢熱線
Passenger Enquiry Hotline 2745 4466

Internal Notice

Prohibition to Install, Modify or Interfere with Equipment without Authorization

The company has always prohibited employees to arbitrarily install, modify or interfere with any equipment on the bus. If the bus captain finds out the same, please inform the hospitality and fill in the complaint report for follow up. Terminus Supervisor, Inspector and colleagues from Maintenance Team will conduct spot-checks, if any violation is found, disciplinary action will be taken.

Hereby notify the above

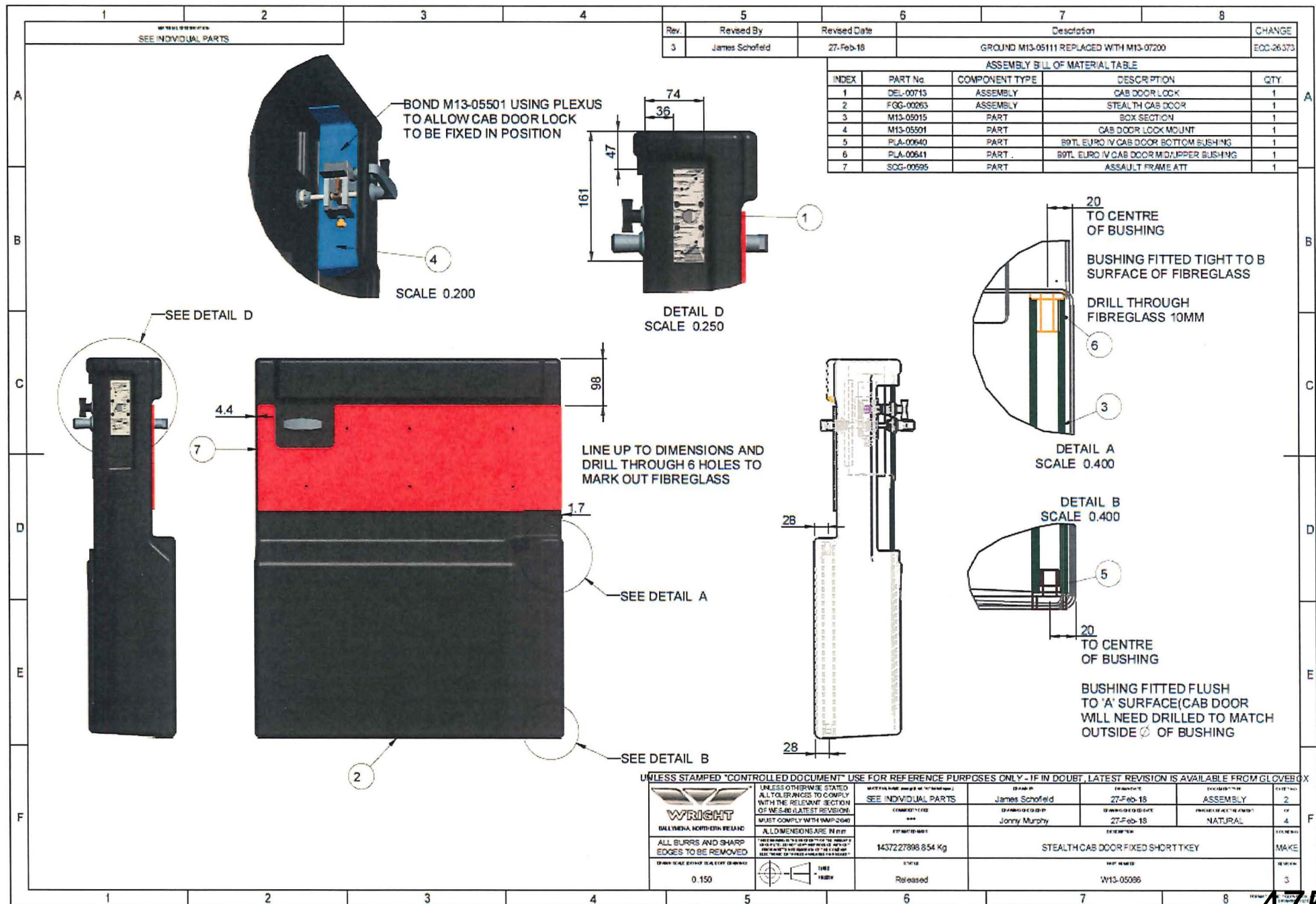
For the attention and implementation of all bus captains and relevant staff



The Kowloon Motor Bus Co. (1933) Ltd
Vice Operations Director
5 MAR 2015

Posting date of this notice
From 5-3-2015
To 20-3-2015
After [redacted]/dispose

4749

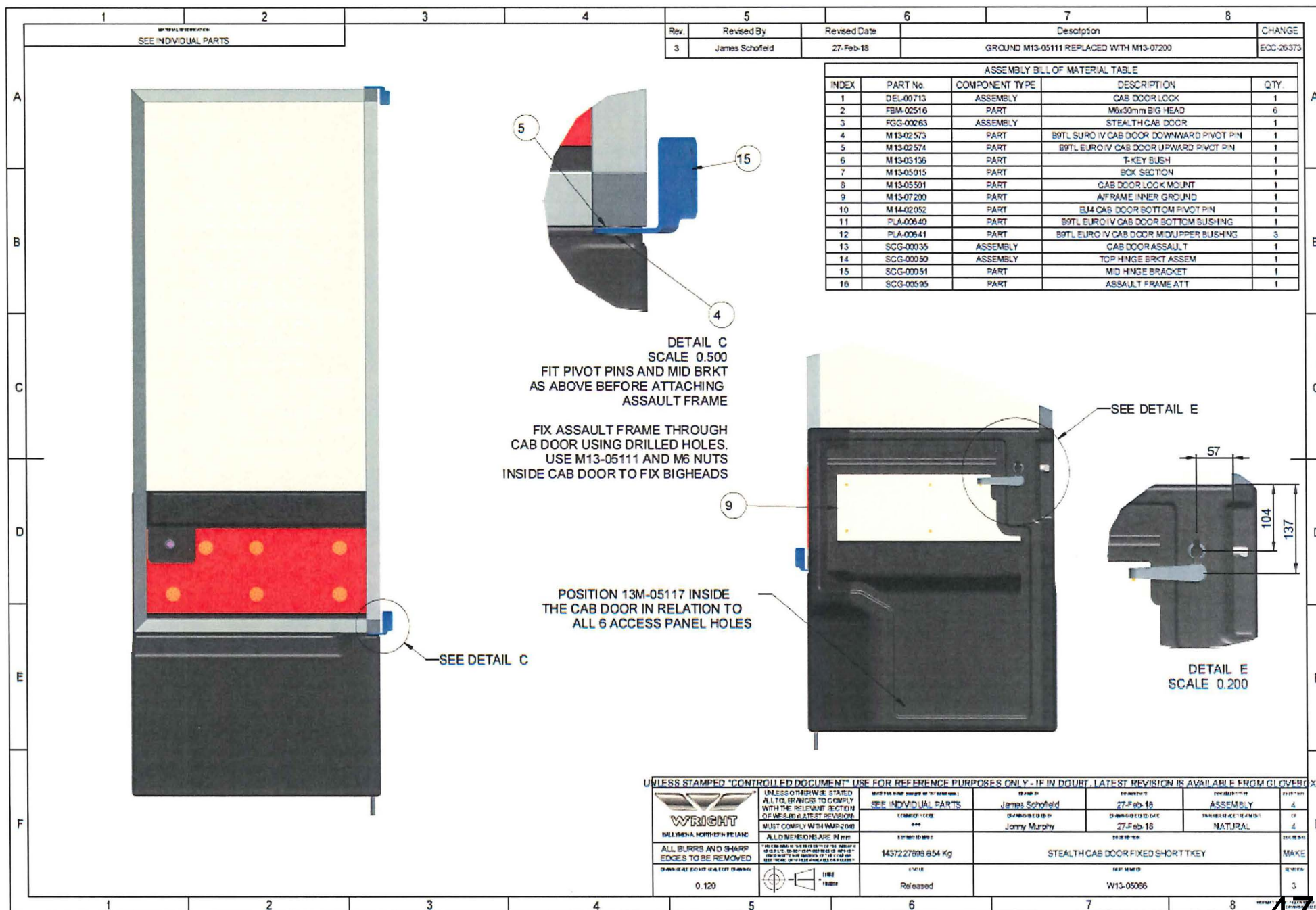




| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--|-----------|----------------|-------------------|---------------------|-----------------|--------------|--|
| <p>ATTACH BIGHEADS FBM-02514 USING FPA-00014(3/16 DOME HEAD POP) TO 6 CENTRE HOLES BEFORE ATTACHING TO ASSAULT FRAME WITH MONOBOLTS.</p> | | | | Rev. | Revised By | Revised Date | Description |
| | | | | 3 | James Schofield | 27-Feb-18 | GROUND M13-05111 REPLACED WITH M13-07200 |
| | | | | CHANGE ECC-26373 | | | |
| ASSEMBLY BILL OF MATERIAL TABLE | | | | | | | |
| INDEX | PART No | COMPONENT TYPE | DESCRIPTION | QTY. | | | |
| 1 | FBM-02516 | PART | M6x30mm B/G HEAD | 6 | | | |
| 2 | SCG-00035 | ASSEMBLY | CAB DOOR ASSAULT | 1 | | | |
| 3 | SCG-00595 | PART | ASSAULT FRAME ATT | 1 | | | |

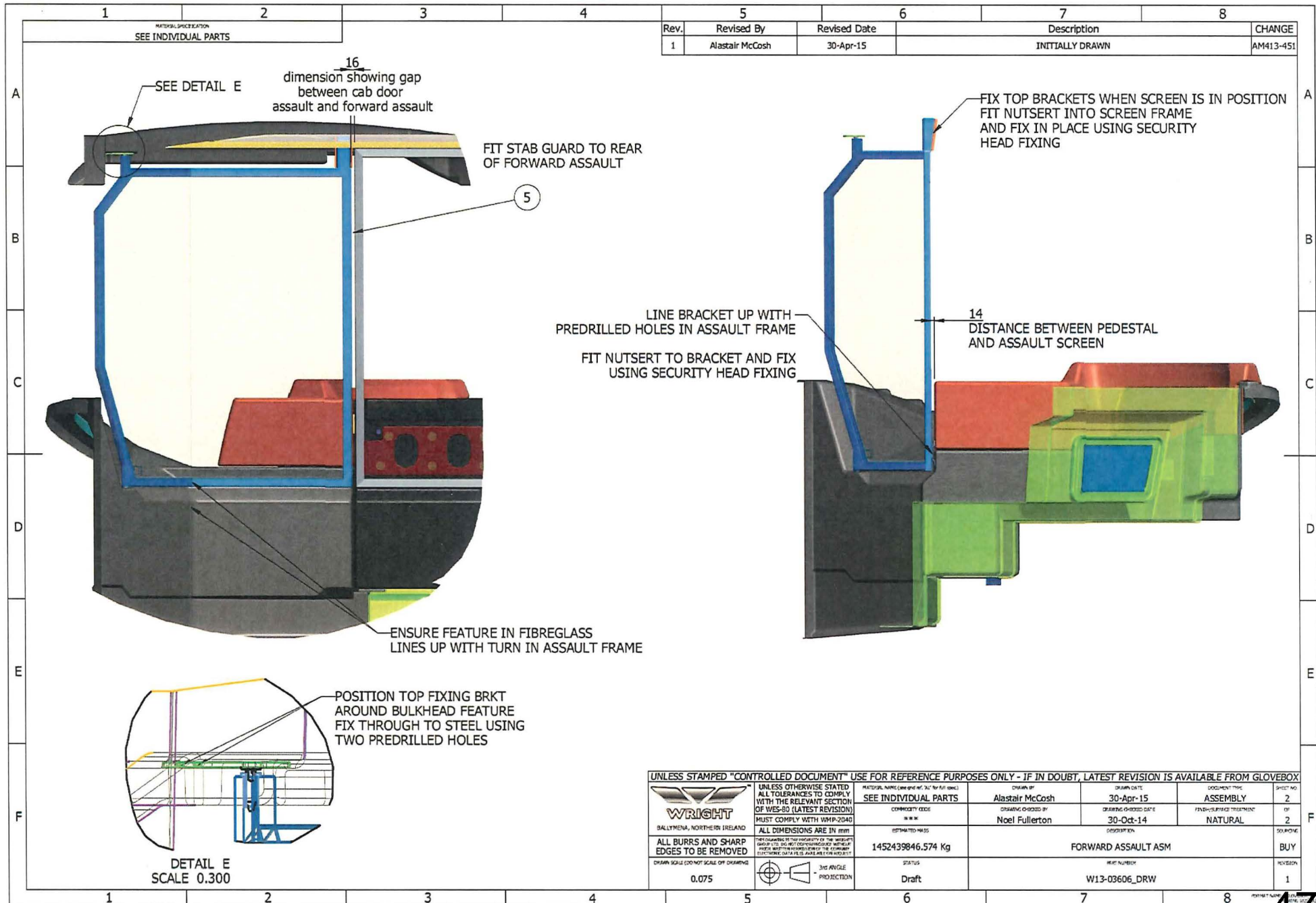
REAR VIEW

FRONT VIEW

| WRIGHT | | UNLESS OTHERWISE STATED, ALL DIMENSIONS TO COMPLY WITH THE RELEVANT SECTION OF THE RELEVANT STANDARD. MUST COMPLY WITH WAF 2000. | | SEE INDIVIDUAL PARTS | | James Schofield | | 27-Feb-18 | | ASSEMBLY | | 3 | |
|---|--|--|--|----------------------|--|----------------------------------|--|-----------|--|----------|--|---|--|
| ALL DIMENSIONS ARE IN MM | | ALL DIMENSIONS ARE IN MM | | 14372.27895 654 Kg | | Noel Fullerton | | 27-Feb-18 | | NATURAL | | 4 | |
| ALL BURRS AND SHARP EDGES TO BE REMOVED | | UNLESS OTHERWISE STATED, ALL DIMENSIONS TO COMPLY WITH THE RELEVANT SECTION OF THE RELEVANT STANDARD. MUST COMPLY WITH WAF 2000. | | Released | | STEALTH CAB DOOR FIXED SHORT KEY | | 27-Feb-18 | | MAKE | | 3 | |
| 0.130 | | 0.130 | | Released | | W13-05095 | | 27-Feb-18 | | 3 | | | |



| | | | | | | | | | | | | | |
|---|--|--|--|---|--|---|--|--|--|--|--|----------------------------------|--|
| UNLESS STAMPED "CONTROLLED DOCUMENT" USE FOR REFERENCE PURPOSES ONLY - IF IN DOUBT, LATEST REVISION IS AVAILABLE FROM GLOVEBOX | | | | | | | | | | | | | |
|  WRIGHT BALLYMENA, NORTHERN IRELAND | | UNLESS OTHERWISE STATED ALL TOLERANCES TO COMPLY WITH THE RELEVANT SECTION OF WES-80 (LATEST REVISION) MUST COMPLY WITH WMP-2040 | | MATERIAL NAME (and grade if A2 for bolt spec.) SEE INDIVIDUAL PARTS COMMODITY CODE *** | | DRAWN BY Alastair McCosh DRAWING CHECKED BY Noel Fullerton | | DRAWN DATE 30-Apr-15 DRAWING CHECKED DATE 30-Oct-14 | | DOCUMENT TYPE ASSEMBLY FINISH/SURFACE TREATMENT NATURAL | | SHEET NO 1 2 | |
| ALL BURRS AND SHARP EDGES TO BE REMOVED DIMENSION SCALE (DO NOT SCALE OFF DIMENSIONS) | | ALL DIMENSIONS ARE IN mm ESTIMATED MASS 1452439846.574 Kg | | THE DRAWING IS TO BE USED BY THE GROUP TO THE LEFT OF THE COMMODITY CODE WITHOUT ANY ADDITIONAL TOLERANCES OR SPECIFICATIONS UNLESS OTHERWISE STATED IN THE DRAWING | | DESCRIPTION FORWARD ASSAULT ARMOUR | | BUYING | | BUY | | REVISION | |
| 0.075 | |  | | 3RD ANGLE PROJECTION | | STATUS Draft | | WEIGHT (GROSS) W13-03606_DRW | | REVISION | | 1 | |





**ALEXANDER
DENNIS**

Kowloon Motor Bus Co. (1933) Ltd
9 Po Lun St,
Lai Chi Kok,
Kowloon
Hong Kong

Alexander Dennis (Asia Pacific) Limited
Units A-B, 9/Floor
YHC Tower
1 Sheung Yuet Road
Kowloon Bay
Kowloon, Hong Kong

Tel: +(852) 2757 8057
Fax: +(852) 2757 7766

22nd November 2017

For the attention of Kenneth Lo

Dear Kenneth

Driver Protection Screen

I am writing to confirm that, we, Alexander Dennis Ltd (ADL), have no objection regarding KMB to source and retrofit buses with a screen to protect the driver from passengers.

The affected vehicle types are listed below:

- Enviro500
- Enviro500 Turbo
- Enviro500 Turbo facelift

Please note that [ADL] are not able to accept any liability claim related to the fitment or operation of this screen. For any further questions, please do not hesitate to contact us.

Yours sincerely



Andy Boulton
Customer Development & Technical Director

VOLVO BUSES



The Kowloon Motor Bus Co (1933) Ltd
 No. 9 Po Lun Street
 Lai Chi Kok, Kowloon
 Hong Kong

(By mail)

| | | | |
|-------------|----------------------|----------------|----------------|
| Date | Telephone indialling | Telefax | Our reference |
| 12 Jun 2018 | +852 2827 1688 | +852 2219 7088 | L0612/18057/JL |

For the attention of Kenneth Lo

Dear Kenneth,

Retrofit of Driver Assault Screen to KMB Buses

I am writing to confirm that, we, Volvo Bus Hong Kong Ltd, have no objection regarding KMB to source and retrofit buses with a screen to protect the driver against assault from passengers.

The affected vehicle types are listed below:

- Volvo B9TL MKII and MKI
- Volvo Super Olympian

Yours faithfully,
 Volvo Bus Hong Kong Ltd


 Julia Lu
 Key Account manager



Volvo Bus Hong Kong Limited
 Units 1801-03, Kwun Tong View,
 410 Kwun Tong Road, Kowloon,
 Hong Kong


Telephone
 +852 2827 1688

www.volvobuses.com

Registered Office
 Hong Kong

CC S/Admin

27 October 2017

 **九龍巴士（一九三三）有限公司**
 九巴服務 日日進步 THE KOWLOON MOTOR BUS CO. (1933) LTD.
 Our Ref : ENG/011/17/TAPLAN

Commissioner for Transport
 Transport Department
 Bus Engineering Division
 Room 3402, Immigration Tower
 7 Gloucester Road
 Wan Chai
 Hong Kong

Attn: Danny Chan

Dear Sir,

Change of Particulars
---The retrofit of Assault Screen Panel for all KMB/LW buses---

We intend to retrofit an Assault Screen Panel to the driver cab door for all KMB/LW buses to provide added protection to our bus captains against assault and other physical violence by passengers.

Please find attached the appearance and construction of the Assault Screen Panel. The Assault Screen Panel is made of 10mm transparent polycarbonate plate mounted directly to the structural members of the driver cab door with the provision of a bump stop bracket at the upper portion of the assault screen panel against rattling.

The transparent Assault Screen Panel does not cause both visual and physical obstructions to the driver monitor and control of the vehicle.

For your consideration and approval please.

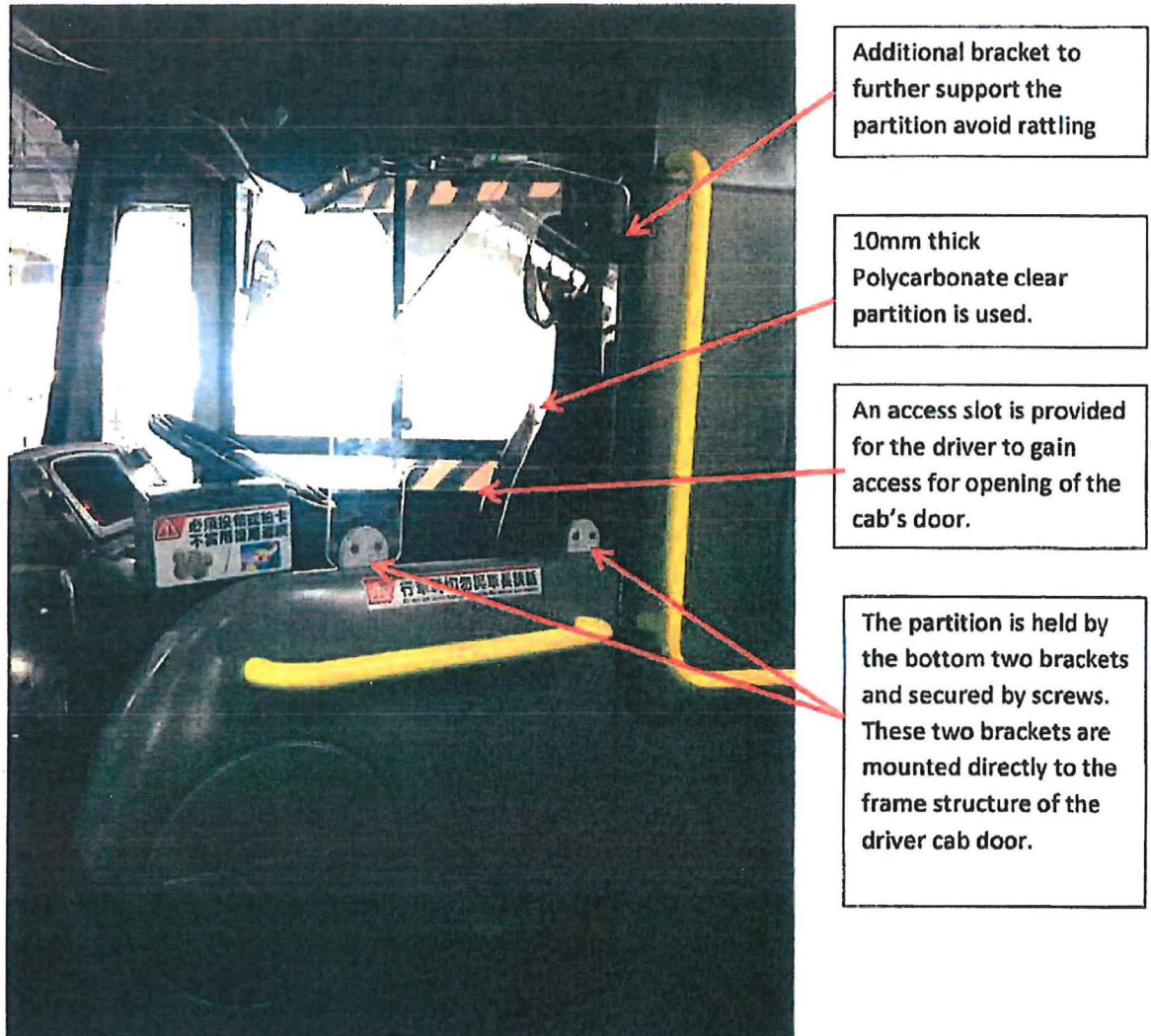
Regards,

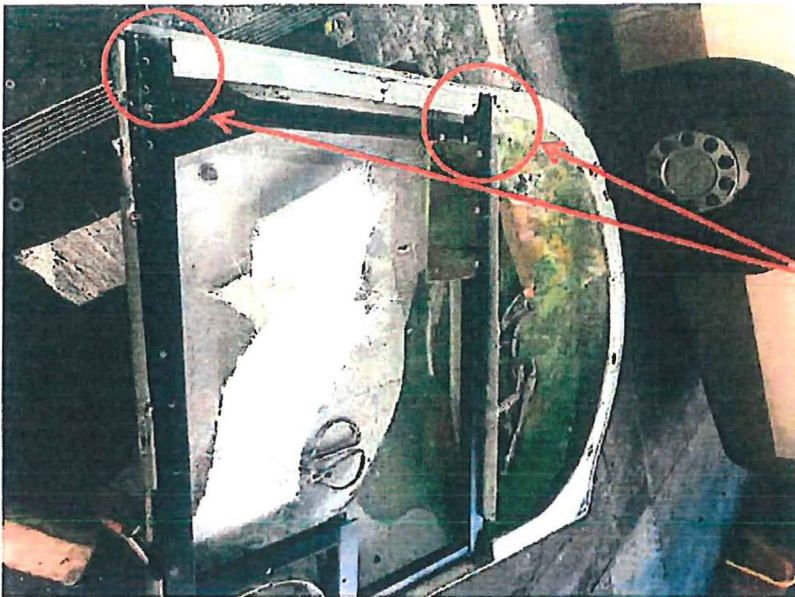


So Hing Shun

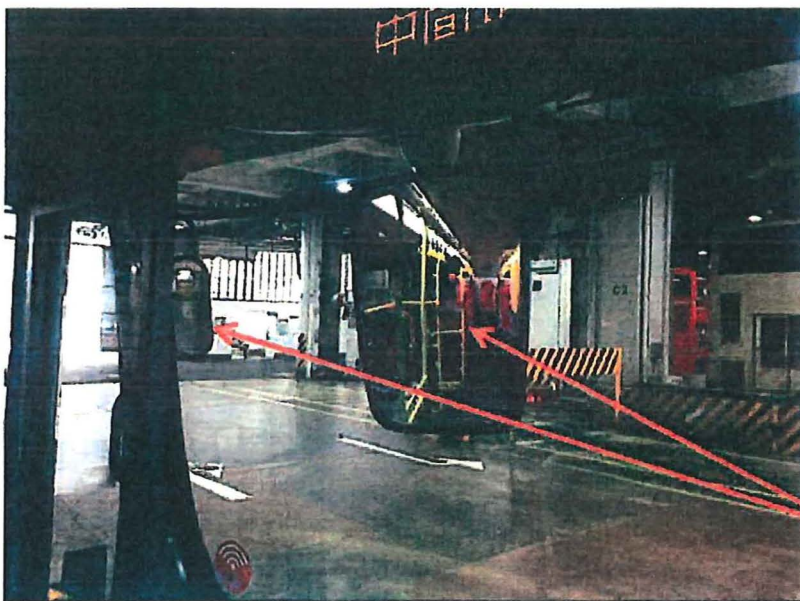
Anti-assault partition screen installation on driver cab door

Below are photos showing partition screen on the Volvo B9TL Wright Body 12m. This general design can apply to all the major bus types





The partition bottom mounting brackets are secured directly to the driver cab door structure



The partition does not block the view to N/S mirror and the rear mirror



運輸署

Transport Department

Our Ref. : (248) in TD TKW 50/203/2

Your Ref. : ENG/011/17/TAPLAN

Tel. : 2189 7082

Fax. : 2764 1517

12 June 2018

The Kowloon Motor Bus Co. (1933) Ltd.
9 Po Lun Street,
Lai Chi Kok,
Kowloon,
Hong Kong
Attn.: Mr. So Hing Shun

Dear Mr. So,

Re: Retrofit buses with Driver Seat Assault Screen Panel

I refer to your letter dated 27 October 2017, regarding the installation of Assault Screen Panel to the driver cab door – in the KMB / LW fleet and your subsequent information.

Based on your submitted drawings and detailed information on the installation, along with the inspection of the sample bus carried out by our vehicle examiner, we have no objection to your application.

This approval applies to the following vehicle models of ADL buses only:

- Enviro 500
- Enviro 500 Turbo
- Enviro 500 Turbo facelift

Please note that this approval may be revoked, if the vehicle and/or passenger safety is found to be affected by installation.

Yours faithfully,

(C. K. CHUI)

for Commissioner for Transport

21 June 2018

Our Ref : ENG/006/18/TAPLAN

Commissioner for Transport
Transport Department
Bus Engineering Division
Room 3402, Immigration Tower
7 Gloucester Road
Wan Chai
Hong Kong

Attn: Danny Chan

Dear Sir,

Change of Particulars
The retrofit of Assault Screen Panel on Volvo buses

We intend to retrofit an Assault Screen Panel to the driver cab door for all KMB/LW buses to provide added protection to our bus captains against assault and other physical violence by passengers.

Attached please find the supporting letter from Volvo regarding to this retrofit exercise for your information. The transparent Assault Screen Panel does not cause both visual and physical obstructions to the driver monitor and control of the vehicles.

For your consideration and approval please.

Regards,



For

Principal Engineer



運輸署

Transport Department

Our Ref. : (254) in TD TKW 50/203/2

Your Ref. : ENG/006/18/TAPLAN

Tel. : 2189 7082

Fax. : 2764 1517

25 June 2018

The Kowloon Motor Bus Co. (1933) Ltd.
9 Po Lun Street,
Lai Chi Kok,
Kowloon,
Hong Kong
Attn.: Mr. Ivan Ho

Dear Mr. Ho,

Re: Retrofit buses with Driver Seat Assault Screen Panel

I refer to your letter dated 21 June 2018, regarding the installation of Assault Screen Panel to the driver cab door – in the KMB / LW fleet and your subsequent information.

Based on your submitted drawings and detailed information on the installation, along with the inspection of the sample bus carried out by our vehicle examiner, we have no objection to your application.

This approval applies to the following vehicle models of Volvo buses only:

- B9TL MKI
- B9TL MKII
- Super Olympian

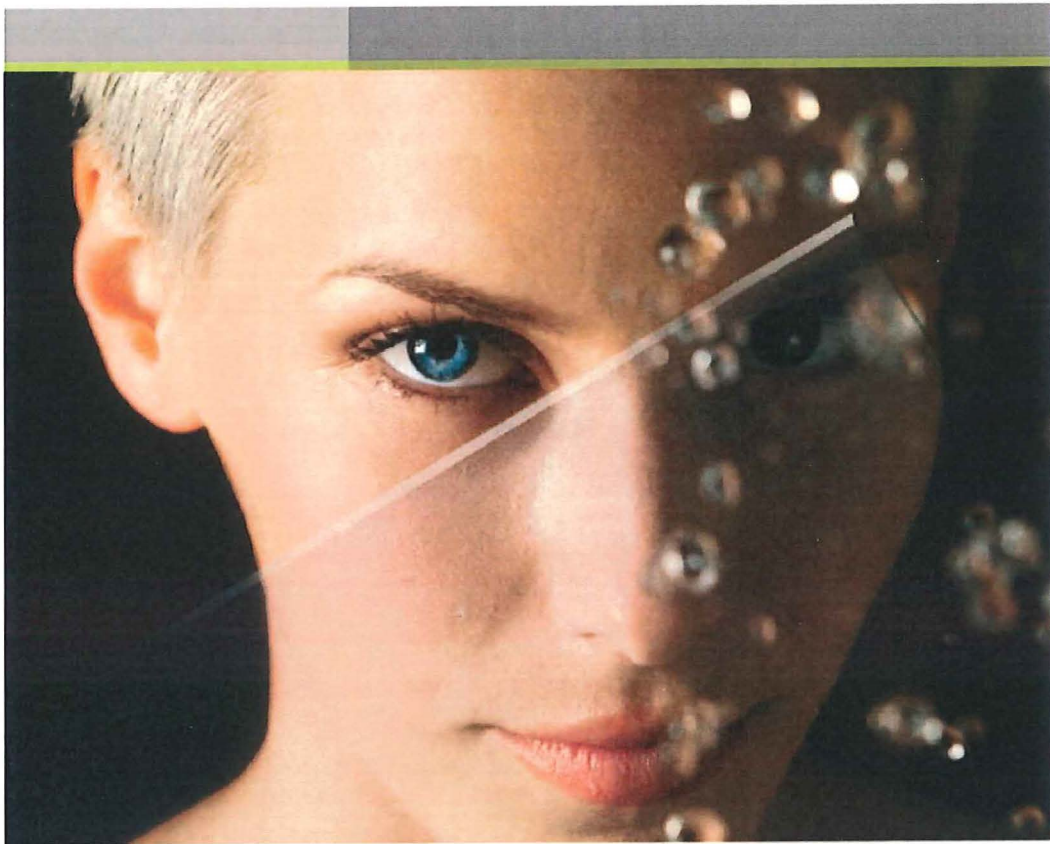
Please note that this approval may be revoked, if the vehicle and/or passenger safety is found to be affected by installation.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'C. K. CHUI'.

(C. K. CHUI)

for Commissioner for Transport




[Home >](#)

ABOUT PALRAM

Since 1963, Palram has led the world in the manufacturing of extruded thermoplastic sheets and panel systems. Established at **kibbutz Ramat Yohanan in Israel** Palram has grown from its small-town origins into a multinational conglomerate with branches on six continents. From humble beginnings, we have established ourselves as an industry leader with over half a century of growth.

To see a [list of Palram Global Operations](#)



4764





滋擾車長乃刑事罪行

It is a criminal offence to impede or distract a bus captain

[Attached is a CD with video]

Note: for the video attached, the translation of the announcement broadcasted in Chinese on the bus after the warning sound is:

"the bus captain has been harassed; this bus will now stop service; would passengers please be careful of your own safety".

The Chinese message showing after the first message of "*WELCOME ONBOARD*" is simply "*WELCOME ONBOARD ON A KMB BUS*" in Chinese, followed by three messages in Chinese showing the announcement mentioned above in written Chinese characters.



九龍巴士(一九三三)有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

內部通告

報站器新增乘客通告廣播項目

由 2017 年 5 月 26 日起，報站器新增 [車長受到滋擾] 之乘客通告於編號 10 的位置，原有 [機件故障] 通告則更改至通告編號 18。如有需要，車長可利用附設之線控器播放有關通告。

乘客通告內容如下：

| 通告編號 | 廣播項目 |
|------|--------------------|
| 01 | 請緊握扶手 |
| 02 | 請行入車廂 |
| 03 | 請勿超越黃線 |
| 04 | 上層不准站立 梯間不准站立 |
| 05 | 保持車廂清潔 |
| 06 | ----- |
| 07 | 照顧小孩長者 |
| 08 | 請勿飲食 |
| 09 | 嚴禁吸煙 |
| 10 | 車長受到滋擾 巴士服務中斷 [新增] |
| 11 | 交通改道 |
| 12 | 請用上層座位 |
| 13 | 請摺好嬰兒車 |
| 14 | 你也可以讓座 |
| 15 | 看管隨身行李 |
| 16 | 為穩定班次 巴士稍作停留 |
| 17 | 請讓輪椅乘客 優先使用輪椅區 |
| 18 | 機件故障 暫停行車 |

敬請各車長留意。

此通告張貼日期
由 26-5-2017
至 8-6-2017
後 / 棄置



25 MAY 2017

公司內部通告只限員工閱讀參考，不得向外界轉發，除員工網外，不得上載至互聯網。



九龍巴士(一九三三)有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

Internal Notice

New Passenger Notice Announcement Items of Stop Reporting System

From 26 May 2017, passenger notice of [bus captain being impeded or distracted] will be added as notice number 10, and the original [mechanical broke down] notice will be moved to notice number 18. If necessary, the bus captain can use the attached line controller to broadcast the relevant notice.

The contents of the passenger notice are as follows:

| Notice number | Announcement Items |
|---------------|---|
| 01 | Please hold the handrail tightly |
| 02 | Please move inside bus compartment |
| 03 | Please stand behind the yellow line |
| 04 | Do not stand on the stairway Do not stand on the upper deck |
| 05 | Keep the bus clean |
| 06 | ----- |
| 07 | Take care of children and the elderly |
| 08 | Do not eat or drink |
| 09 | Smoking is prohibited |
| 10 | Bus captain being impeded or distracted bus service is interrupted [newly added] |
| 11 | Diversity due to traffic |
| 12 | Please use the seats on the upper deck |
| 13 | Please fold up the baby pram |
| 14 | You can offer the seat as well |
| 15 | Take care of personal belongings |
| 16 | The bus will stay shortly to stabilize bus frequency |

| | |
|----|---|
| 17 | Please give wheelchair passengers priority to use wheelchair area |
| 18 | Mechanical broke down bus is suspended |

For the attention of all bus captains.

Posting date of this notice

From 26-5-2017

To 8-6-2017

After [redacted]/dispose



25 MAY 2017

The internal notice of the Company is for the reading and reference of the employees only, which shall not be forwarded externally. It may not be uploaded to the Internet, save for the employee intranet.

指示：

以下每一行有四個形容字句，在細讀第一行的字句後，請作出第一時間的直覺反應。當你覺得某一字句的特徵最貼切的形容你時，請在該字句的右邊方格內填上“√”字，如果你覺得某一字句的特徵與你最不相符時，請在該字句的右方格內填上“X”字，在每四個字句中必須有一個“√”和一個“X”字。右邊例子裡的人士，在四個形容字句中，其本人最具有獨創性，而最缺乏溫柔。請用原子筆用力填寫。

切記：

- (1) 本分析不是一項測驗，所以沒有“對”或“錯”的答案。
- (2) 性格特徵分析必須在無人干擾的情況下單獨完成。
- (3) 在填寫個人性格特徵時，你必須聯想自己是在目前的職位工作。如果你目前沒有工作，那你就想象自己還是在執行上一份工作。如果你從來沒有工作過，那就聯想自己是在家中。

©抄襲表格是犯法的

SINGAPORE : TEL: [REDACTED] • FAX: [REDACTED]
HONG KONG : TEL: [REDACTED] • FAX: [REDACTED]

© [REDACTED]
Revised 1981, 1989, [REDACTED]

一九八九年修訂

請填寫

日期

姓名

公司

目前職位

地址

電話

例子：

| | 溫柔 <input checked="" type="checkbox"/> | 有說服力 <input type="checkbox"/> | 謙虛 <input type="checkbox"/> | 有獨創性 <input checked="" type="checkbox"/> |
|----|--|-------------------------------|-------------------------------|--|
| 1 | 溫柔 <input type="checkbox"/> | 有說服力 <input type="checkbox"/> | 謙虛 <input type="checkbox"/> | 有獨創性 <input type="checkbox"/> |
| 2 | 有吸引力 <input type="checkbox"/> | 盡職 <input type="checkbox"/> | 倔強 <input type="checkbox"/> | 親切可人 <input type="checkbox"/> |
| 3 | 易被控制 <input type="checkbox"/> | 大膽 <input type="checkbox"/> | 忠誠 <input type="checkbox"/> | 有魅力 <input type="checkbox"/> |
| 4 | 開明 <input type="checkbox"/> | 熱心腸 <input type="checkbox"/> | 有毅力 <input type="checkbox"/> | 歡愉 <input type="checkbox"/> |
| 5 | 天性快活 <input type="checkbox"/> | 準確 <input type="checkbox"/> | 有膽量 <input type="checkbox"/> | 冷靜 <input type="checkbox"/> |
| 6 | 有競爭力 <input type="checkbox"/> | 體貼 <input type="checkbox"/> | 愉快 <input type="checkbox"/> | 融合 <input type="checkbox"/> |
| 7 | 愛挑剔 <input type="checkbox"/> | 順從 <input type="checkbox"/> | 不能佩服 <input type="checkbox"/> | 好玩 <input type="checkbox"/> |
| 8 | 勇敢 <input type="checkbox"/> | 富有靈感 <input type="checkbox"/> | 謙恭 <input type="checkbox"/> | 膽怯 <input type="checkbox"/> |
| 9 | 好交際 <input type="checkbox"/> | 有耐心 <input type="checkbox"/> | 自持 <input type="checkbox"/> | 柔和可親 <input type="checkbox"/> |
| 10 | 好冒險 <input type="checkbox"/> | 易于接收 <input type="checkbox"/> | 熱誠 <input type="checkbox"/> | 穩健 <input type="checkbox"/> |
| 11 | 健談 <input type="checkbox"/> | 有克制 <input type="checkbox"/> | 拘泥 <input type="checkbox"/> | 果斷 <input type="checkbox"/> |
| 12 | 精練 <input type="checkbox"/> | 果敢 <input type="checkbox"/> | 圓滑 <input type="checkbox"/> | 易滿足 <input type="checkbox"/> |
| 13 | 急進 <input type="checkbox"/> | 合群 <input type="checkbox"/> | 少猜疑 <input type="checkbox"/> | 恐懼不安 <input type="checkbox"/> |
| 14 | 謹慎 <input type="checkbox"/> | 有決心 <input type="checkbox"/> | 善于游說 <input type="checkbox"/> | 好脾氣 <input type="checkbox"/> |
| 15 | 願意服從 <input type="checkbox"/> | 熱切 <input type="checkbox"/> | 容易相處 <input type="checkbox"/> | 烈性 <input type="checkbox"/> |
| 16 | 自信 <input type="checkbox"/> | 有同情心 <input type="checkbox"/> | 寬容 <input type="checkbox"/> | 武斷 <input type="checkbox"/> |
| 17 | 有紀律 <input type="checkbox"/> | 慷慨 <input type="checkbox"/> | 生氣蓬勃 <input type="checkbox"/> | 執著 <input type="checkbox"/> |
| 18 | 可敬佩 <input type="checkbox"/> | 仁慈 <input type="checkbox"/> | 順從 <input type="checkbox"/> | 強勁 <input type="checkbox"/> |
| 19 | 受尊重 <input type="checkbox"/> | 先鋒 <input type="checkbox"/> | 樂觀 <input type="checkbox"/> | 隨和 <input type="checkbox"/> |
| 20 | 好爭辯 <input type="checkbox"/> | 適應力強 <input type="checkbox"/> | 放鬆 <input type="checkbox"/> | 無掛慮 <input type="checkbox"/> |
| 21 | 信靠不疑 <input type="checkbox"/> | 滿足 <input type="checkbox"/> | 積極 <input type="checkbox"/> | 心平氣和 <input type="checkbox"/> |
| 22 | 善于交際 <input type="checkbox"/> | 有修養 <input type="checkbox"/> | 精力充沛 <input type="checkbox"/> | 寬厚 <input type="checkbox"/> |
| 23 | 友善 <input type="checkbox"/> | 精確 <input type="checkbox"/> | 坦率 <input type="checkbox"/> | 克制 <input type="checkbox"/> |
| 24 | 急躁 <input type="checkbox"/> | 和睦 <input type="checkbox"/> | 受歡迎 <input type="checkbox"/> | 忠實 <input type="checkbox"/> |

4771

Personal Character Analysis

No. C 0123

Direction:

There are four adjectives in each of the following lines. After reading the first line of the sentence, please make the instant intuitive response. When you find that the characteristic described by the word is the most appropriate for you, please

put a "✓" in the right box of the word. If you find that the characteristic described by the word of are the most inconsistent with you, please put a "X" in the right box of the word. There must be a "✓" and a "X" in each of the four words. The person in the example on the right, among the four adjectives, is the most creative and the least gentle. Please fill in with a pen strongly.

Please fill in Date_____

Name_____

Company_____

Current position _____

Address_____

Telephone_____

Example:

Gentle☒ Persuasive☐ Humble☐ Creative☒

| | | | | |
|----|---|---|---|--|
| 1 | Gentle <input type="checkbox"/> | Persuasive <input type="checkbox"/> | Humble <input type="checkbox"/> | Creative <input type="checkbox"/> |
| 2 | Attractive <input type="checkbox"/> | Conscientious <input type="checkbox"/> | Stubborn <input type="checkbox"/> | Kind and freidnly <input type="checkbox"/> |
| 3 | Easy to be controlled <input type="checkbox"/> | Bold <input type="checkbox"/> | Loyal <input type="checkbox"/> | Charming <input type="checkbox"/> |
| 4 | Openminded <input type="checkbox"/> | Warm-hearted <input type="checkbox"/> | Persevering <input type="checkbox"/> | Happy <input type="checkbox"/> |
| 5 | Born to be joyful <input type="checkbox"/> | Accurate <input type="checkbox"/> | Courageous <input type="checkbox"/> | Calm <input type="checkbox"/> |
| 6 | Competitive <input type="checkbox"/> | Thoughtful <input type="checkbox"/> | Joyful <input type="checkbox"/> | Accomodative <input type="checkbox"/> |
| 7 | Picky <input type="checkbox"/> | Obedient <input type="checkbox"/> | Unyielding <input type="checkbox"/> | Amusing <input type="checkbox"/> |
| 8 | Courageous <input type="checkbox"/> | Inspirative <input type="checkbox"/> | Courtesy <input type="checkbox"/> | Timid <input type="checkbox"/> |
| 9 | Sociable <input type="checkbox"/> | Patient <input type="checkbox"/> | Self- disciplined <input type="checkbox"/> | Gentle and friendly <input type="checkbox"/> |
| 10 | Adventurous <input type="checkbox"/> | Acceptive <input type="checkbox"/> | Enthusiastic <input type="checkbox"/> | Steady <input type="checkbox"/> |
| 11 | Talkative <input type="checkbox"/> | Forbearing <input type="checkbox"/> | Rigid <input type="checkbox"/> | Determinative <input type="checkbox"/> |
| 12 | Concise <input type="checkbox"/> | Resolute <input type="checkbox"/> | Tactful <input type="checkbox"/> | Easy to be satisfied <input type="checkbox"/> |
| 13 | Agressive <input type="checkbox"/> | Cooperative <input type="checkbox"/> | Unsuspicious | Fearful and |

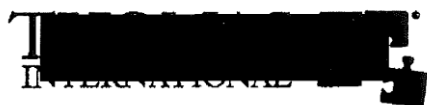
7.1

| | | | | |
|----|--|--|---|---|
| | | | <input type="checkbox"/> | anxious <input type="checkbox"/> |
| 14 | Diligent <input type="checkbox"/> | Determined <input type="checkbox"/> | Good at persuading <input type="checkbox"/> | Good temper <input type="checkbox"/> |
| 15 | Willing to follow <input type="checkbox"/> | Cordial <input type="checkbox"/> | Easygoing <input type="checkbox"/> | Spirited <input type="checkbox"/> |
| 16 | Confident <input type="checkbox"/> | Compassionate <input type="checkbox"/> | Tolerant <input type="checkbox"/> | Assertive <input type="checkbox"/> |
| 17 | Disciplined <input type="checkbox"/> | Generous <input type="checkbox"/> | Animated <input type="checkbox"/> | Persistent <input type="checkbox"/> |
| 18 | Respectable <input type="checkbox"/> | Benevolent <input type="checkbox"/> | Obedient <input type="checkbox"/> | Strong <input type="checkbox"/> |
| 19 | Respected <input type="checkbox"/> | Pioneer <input type="checkbox"/> | Optimistic <input type="checkbox"/> | Amiable <input type="checkbox"/> |
| 20 | Argumental <input type="checkbox"/> | Adaptive <input type="checkbox"/> | Relaxing <input type="checkbox"/> | No anxiety <input type="checkbox"/> |
| 21 | Trustworthy <input type="checkbox"/> | Satisfied <input type="checkbox"/> | Enthusiastic <input type="checkbox"/> | In a calm mood <input type="checkbox"/> |
| 22 | Sociable <input type="checkbox"/> | Cultivated <input type="checkbox"/> | Energetic <input type="checkbox"/> | Generous <input type="checkbox"/> |
| 23 | Friendly <input type="checkbox"/> | Precise <input type="checkbox"/> | Candid <input type="checkbox"/> | Forbearing <input type="checkbox"/> |
| 24 | Irritable <input type="checkbox"/> | Peaceful <input type="checkbox"/> | Popular <input type="checkbox"/> | Loyal <input type="checkbox"/> |

Remember:

- (1) This analysis is not a test, thus there is no “right” or “wrong” answer.
- (2) Personal Character Analysis should be completed solely without any interference from third parties.
- (3) When filling in personal characters, you have to think of yourself to be working in the current position. If you are jobless at the moment, please imagine you are still executing your last job. If you have never worked before, please think of yourself being at home.

© it is illegal to copy the form



SINGAPORE : TEL: [REDACTED] • FAX: [REDACTED]
HONG KONG : TEL: [REDACTED] • FAX: [REDACTED]

© [REDACTED]
Revised 1981, 1989, [REDACTED]

Amended in 1989

Outside employment of Contract Hourly Rated Bus Captains

| | <u>Short working hours</u> | <u>Long working hours</u> | <u>Total</u> | |
|---|----------------------------|---------------------------|--------------|------------|
| No other employment | 13 | 86 | 99 | 32% |
| Clerk | 24 | 29 | 53 | 17% |
| Worker | 38 | 41 | 79 | 25% |
| Driver | | | | |
| Private car | 15 | 9 | 24 | 8% |
| Van | 10 | 6 | 16 | 5% |
| Coach | 6 | 8 | 14 | 5% |
| Part-time bus captains of other franchised bus operators | 3 | 23 | 26 | 8% |
| | <u>34</u> | <u>46</u> | <u>80</u> | <u>26%</u> |
| Total | 109 | 202 | 311 | 100% |

TER 821

當「拍卡」開工時表示閣下今天的
身體及精神狀況可以應付為九巴擔
任兼職車長的工作。閣下明白倘若
在駕駛巴士期間身體及精神狀況轉
差，會立即通知公司電台或當值站
長，並停止駕駛工作

現在時間 11:18:05

退出系統



8.2

TER 21

When tapping the card, you indicate that your physical and mental conditions today can cope with the work of KMB as a part-time bus captain when you start to work. You understand that if your physical and mental conditions have deteriorated during driving the bus, you will immediately notify the radio of the company or the terminus supervisor on duty and stop driving.

Time now

11:18:05



聲明書

致：九龍巴士(1933)有限公司/龍運巴士有限公司 (下稱“公司”)

本人 [REDACTED] (中文) [REDACTED] (英文)，香港身份證號碼為 [REDACTED]，

地址為 [REDACTED]，

於 [REDACTED] 年 3 月 28 日入職公司之 車長 職位，現特此作出以下聲明：

- 1) 本人清楚明白並確認本人於入職時及/或在職期間，如受聘於公司以外的工作，不論全職或兼職，都必需向公司申報。

☐ 本人特此聲明於現時並沒有受聘於公司以外的工作，不論全職或兼職。

☒ 本人現於後頁列出本人現時，所有公司以外全職或兼職的工作。

- 2) 本人清楚明白並確認本人於入職前及/或在職期間，如患有可能會影響行車安全的嚴重疾病都必需向公司申報。

☒ 本人特此聲明本人從未患有任何可能會影響行車安全的嚴重疾病。

☐ 本人現於後頁列出本人的病歷紀錄。

- 3) 本人清楚明白並確認本人於入職前及/或在職期間，如有任何刑事定罪紀錄都必需向公司申報(包括但不限於交通定罪紀錄)。

☒ 本人特此聲明本人並沒有任何刑事定罪紀錄。

☐ 本人現於後頁列出本人的刑事定罪紀錄。

- 4) 本人附上已簽署的過往定罪事項證明書申請表格(下稱“該表格”)以授權公司向香港警務署交通總部查詢有關本人之駕駛紀錄。本人清楚明白並確認公司有權在本人入職日起任何時候向香港警務署查詢有關本人之駕駛紀錄。本人亦特此聲明，該表格之副本與正本均具有同等效力。

本人願意向公司作出此份聲明，此聲明的內容全部屬實，本人明白如上述聲明有任何虛假成份，本人有遭檢控刑事罪行之虞。本人亦清楚明白並確認此聲明書於本人簽署當刻生效，公司有權決定此聲明書日後的用途。

日期: 2018 年 3 月 3 日

簽署: [REDACTED] (姓名: [REDACTED])

(請於方格內加上「✓」號)

公司以外的全職/兼職工作

| 入職日期 | 僱主 | 全職/兼職 | 職位 | 工作職務 | 工時 |
|------|----|-------|----|------|----|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

病歷紀錄

| 疾病詳情 | 確診日期 | 仍需覆診 | 治療之醫院 |
|------|------|------|-------|
| | | 是/否* | |
| | | 是/否* | |
| | | 是/否* | |
| | | 是/否* | |

刑事定罪紀錄

| 刑事定罪詳情 | 定罪日期 | 判刑 |
|--------|------|----|
| | | |
| | | |
| | | |
| | | |

日期: 2018 年 3 月 3 日

簽署 : [Redacted Signature] (姓名 [Redacted Name])

Declaration

To: The Kowloon Motor Bus Company (1933) Limited / Long Win Bus Company Limited (hereinafter referred to as the “Company”)

I _____ (Chinese) _____ (English), holder of HKID no. _____, of _____ (address), working as a *part-time bus captain* who joined the Company on 28 March, hereby declare that:-

1) I clearly understand and confirm that in case I engage in any job other than those assigned by the Company at the time of my employment and/or during my employment, irrespective of whether it is a full-time or part-time job, I must report such job to the Company.

☐ I hereby declare that I do not engage in any job other than those assigned by the Company, irrespective of whether it is a full-time or part-time job.

☒ I hereby list all my current full-time or part-time jobs not assigned by the Company on the following page.

2) I clearly understand and confirm that in case I suffer from any serious illness that may affect driving safety before and/or during my employment, I must report such illness to the Company.

☒ I hereby declare that I have never had any serious illness that may affect the driving safety.

☐ I hereby my medical records on the following page.

3) I clearly understand and confirm that in case I have any criminal conviction record (including but not limited to traffic conviction record) before and/or during my employment, I must report such record to the Company.

☒ I hereby declare that I do not have any criminal conviction record.

- ☐ I hereby list my criminal conviction record on the following page.
- 4) I have attached the signed application form for the Certificate Relating to Previous Conviction (hereinafter referred to as the “Form”) to authorize the Company to inquire about my driving records from the Traffic Branch Headquarters of the Hong Kong Police Force. I clearly understand and confirm that the Company has the right to inquire at any time from the date of my employment about my driving records from the Hong Kong Police Force. I also hereby declare that the copy and original of the Form have equal effect.

I make the Declaration to the Company on my own will. All the contents of the Declaration are true. I understand that in case there is any false content in the above Declaration, I may be liable to prosecution for a criminal offence. I also clearly understand and confirm that the Declaration is effective at the time of signing, and the Company has the right to determine the future use of the Declaration.

Date: 3 March 2018

Signature: _____ (Name: _____)

(Please tick the appropriate boxes.)

9.1

Full-time / part-time jobs not assigned by the Company

| Date of employment | Employer | Full-time / part-time | Position | Duty | Working hours |
|--------------------|----------|-----------------------|----------|------|---------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Medical records

| Details of illnesses | Date of diagnosis | Further follow-up consultation required | Hospital for treatment |
|----------------------|-------------------|---|------------------------|
| | | Yes / No* | |
| | | Yes / No* | |
| | | Yes / No* | |
| | | Yes / No* | |

Criminal conviction records

| Details of criminal conviction | Date of conviction | Sentence |
|--------------------------------|--------------------|----------|
| | | |
| | | |
| | | |
| | | |

Date: 3 March 2018

Signature: _____ (Name: _____)

聲明書

致：九龍巴士(1933)有限公司/龍運巴士有限公司 (下稱“公司”)

本人 [REDACTED] (中文) [REDACTED] (英文)，香港身份證號碼為 [REDACTED]

地址為 [REDACTED]

於 [REDACTED] 年 [REDACTED] 月 [REDACTED] 日入職公司之 [REDACTED] 職位，現特此作出以下聲明:-

- 1) 本人清楚明白並確認本人於入職時及/或在職期間，如受聘於公司以外的工作，不論全職或兼職，都必需向公司申報。

☒ 本人特此聲明於現時並沒有受聘於公司以外的工作，不論全職或兼職。

☐ 本人現於後頁列出本人現時，所有公司以外全職或兼職的工作。

- 2) 本人清楚明白並確認本人於入職前及/或在職期間，如患有可能會影響行車安全的嚴重疾病都必需向公司申報。

☒ 本人特此聲明本人從未患有任何可能會影響行車安全的嚴重疾病。

☐ 本人現於後頁列出本人的病歷紀錄。

- 3) 本人清楚明白並確認本人於入職前及/或在職期間，如有任何刑事定罪紀錄都必需向公司申報(包括但不限於交通定罪紀錄)。

☒ 本人特此聲明本人並沒有任何刑事定罪紀錄。

☐ 本人現於後頁列出本人的刑事定罪紀錄。

- 4) 本人附上已簽署的過往定罪事項證明書申請表格(下稱“該表格”)以授權公司向香港警務署交通總部查詢有關本人之駕駛紀錄。本人清楚明白並確認公司有權在本人入職日起任何時候向香港警務署查詢有關本人之駕駛紀錄。本人亦特此聲明，該表格之副本與正本均具有同等效力。

本人願意向公司作出此份聲明，此聲明的內容全部屬實，本人明白如上述聲明有任何虛假成份，本人有遭檢控刑事罪行之虞。本人亦清楚明白並確認此聲明書於本人簽署當刻生效，公司有權決定此聲明書日後的用途。

日期: [REDACTED] 年 [REDACTED] 月 [REDACTED] 日

簽署: [REDACTED] (姓名 [REDACTED])

(請於方格內加上「✓」號)

公司以外的全職/兼職工作

| 入職日期 | 僱主 | 全職/兼職 | 職位 | 工作職務 | 工時 |
|------|----|-------|----|------|----|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

病歷紀錄

| 疾病詳情 | 確診日期 | 仍需覆診 | 治療之醫院 |
|------|------|------|-------|
| | | 是/否* | |
| | | 是/否* | |
| | | 是/否* | |
| | | 是/否* | |

刑事定罪紀錄

| 刑事定罪詳情 | 定罪日期 | 判刑 |
|--------|------|----|
| | | |
| | | |
| | | |
| | | |

日期: [] 年 [] 月 [] 日

簽署: [] (姓名 [])

九龍巴士（一九三三）有限公司
簡便報告表

9.2
400
9.18

職員編號及姓名：

[Redacted]

日期：

[Redacted]

本人承諾

1) 每週工時不少於 10 小時

2) 及在九巴/龍運擔任的車長工作， 沒有違反本人與外間簽訂的僱傭合約。

職員簽署：

[Redacted]

日期：

Declaration

To: The Kowloon Motor Bus Company (1933) Limited / Long Win Bus Company Limited (hereinafter referred to as the “Company”)

I _____ (Chinese) _____ (English), holder of HKID no. _____, of _____ (address), working as a *part-time driver* who joined the Company on _____, hereby declare that:-

- 1) I clearly understand and confirm that in case I engage in any job other than those assigned by the Company at the time of my employment and/or during my employment, irrespective of whether it is a full-time or part-time job, I must report such job to the Company.

☐ ☒ I hereby declare that I do not engage in any job other than those assigned by the Company, irrespective of whether it is a full-time or part-time job.

☐ I hereby list all my current full-time or part-time jobs not assigned by the Company on the following page.
- 2) I clearly understand and confirm that in case I suffer from any serious illness that may affect driving safety before and/or during my employment, I must report such illness to the Company.

☐ ☒ I hereby declare that I have never had any serious illness that may affect the driving safety.

☐ I hereby my medical records on the following page.
- 3) I clearly understand and confirm that in case I have any criminal conviction record (including but not limited to traffic conviction record) before and/or during my employment, I must report such record to the Company.

☐ ☒ I hereby declare that I do not have any criminal conviction record.

☐ I hereby list my criminal conviction record on the following page.

- 4) I have attached the signed application form for the Certificate Relating to Previous Conviction (hereinafter referred to as the “Form”) to authorize the Company to inquire about my driving records from the Traffic Branch Headquarters of the Hong Kong Police Force. I clearly understand and confirm that the Company has the right to inquire at any time from the date of my employment about my driving records from the Hong Kong Police Force. I also hereby declare that the copy and original of the Form have equal effect.

I make the Declaration to the Company on my own will. All the contents of the Declaration are true. I understand that in case there is any false content in the above Declaration, I may be liable to prosecution for a criminal offence. I also clearly understand and confirm that the Declaration is effective at the time of signing, and the Company has the right to determine the future use of the Declaration.

Date:

Signature: _____ (Name: _____)

(Please tick the appropriate boxes.)

9.2

Full-time / part-time jobs not assigned by the Company

| Date of employment | Employer | Full-time / part-time | Position | Duty | Working hours |
|--------------------|----------|-----------------------|----------|------|---------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Medical records

| Details of illnesses | Date of diagnosis | Further follow-up consultation required | Hospital for treatment |
|----------------------|-------------------|---|------------------------|
| | | Yes / No* | |
| | | Yes / No* | |
| | | Yes / No* | |
| | | Yes / No* | |

Criminal conviction records

| Details of criminal conviction | Date of conviction | Sentence |
|--------------------------------|--------------------|----------|
| | | |
| | | |
| | | |
| | | |

Date:

Signature: _____ (Name: _____)

9.2

The Kowloon Motor Bus Company (1933) Limited

Brief report form

Staff number and name: _____

Date:

I promise that

- 1) my working hours will not be less than 10 hours per week
- 2) and I did not violate the employment contract signed by other party and me while working as a bus captain in KMB/LWB.

Staff signature: _____

Date: _____



九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

本部檔號：HR/Resourcing/186848118

九龍巴士（一九三三）有限公司（以下簡稱為“公司”）現聘請 [REDACTED] 先生，香港身份證號碼 [REDACTED]（以下簡稱為“僱員”）為車長，雙方同意下列之僱傭條件：

- 一、 到職日期 ： 二零一八年八月廿二日
- 二、 合約期兩年 ： 二零一八年八月廿二日至二零二零年八月廿一日
- 三、 訓練期 ： 由入職日起為訓練期，訓練日數視乎僱員的受訓進度而定，通過訓練期與否，以公司書面通知為準。

若僱員入職時只持有本地 1 / 1A 駕駛執照：

- 1. 每名僱員可獲安排最多兩次運輸署的巴士駕駛考試；
- 2. 如僱員未能通過首次的運輸署巴士駕駛考試，而需再次入班受訓，等候第二次入班受訓期間將作無薪事假處理；
- 3. 除非獲公司特別批准，否則如僱員仍然未能通過第二次的運輸署巴士駕駛考試，本僱傭合約將因無法履約自動失效。
- 4. 除了在「車長訓練保證金聲明」上所述的情況外，僱員可獲豁免港幣 12,000 元的訓練學費。

- 四、 合約期滿 ： 合約期滿後，僱傭關係將自動終止。
- 五、 糧期 ： 月薪制，每月出糧一次，通常為每個月完結後的第七日。
- 六、 工資 ：
 - 1. 底薪 ： 每月港幣 16,466 元。
 - 2. 過時補水 ： 若每天實際工作超逾八小時，其後的薪津以過時補水形式發給，每小時計法為每月底薪數目 ÷ 240 × 1.5
 - 3. 僱員在訓練期內只可享受底薪，計法為每月之底薪 ÷ 當月日數 × 訓練期日數。（過時補水並不適用）



九龍巴士（一九三三）有限公司

THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

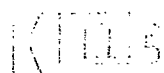
- 七、 迎新獎金 : 僱員在經評核合格及通過試用期後會獲發一次性「迎新獎金」港幣 10,000 元。該筆獎金將分兩期，每期港幣 5,000 元。
1. 第一期會於僱員在經評核合格及通過試用期後(以書面通知為準)的下一個出糧日發放。
 2. 第二期會於僱員入職公司(包括訓練期)滿十二個月並通過試用期後的下一個出糧日發放。
 3. 如僱員通過試用期但在「迎新獎金」發放日前離職，將不獲發放該筆「迎新獎金」。
- 八、 年尾底薪雙糧 : 僱員於大概農曆新年前可獲發多一個月的年尾底薪。底薪雙糧會按照僱員在前一年度十二月卅一日的底薪計算。
1. 年尾底薪雙糧會按僱員通過試用期的日期起按比例發放。
 2. 若前一年度的年尾十二月卅一日僱員尚未通過試用期，他/她將不會在下個農曆新年前獲發底薪雙糧。
- 九、 工作時間 : 1. 僱員必須依照公司編定的時間表輪班輪休當值，因不同路線行車時間各有不同，僱員必須服從公司分配每日擔任八小時或超過八小時的工作。
2. 公司有權按工作需要編排僱員當值早、夜、特別或通宵更，僱員不得異議。擔任通宵更，另有通宵津貼發給。僱員擔任通宵更不足一個月，通宵津貼依當值通宵日數按比例發給。
 3. 因公司屬公共服務機構，僱員在不正常天氣情況下，如黑色暴雨警告訊號或颱風訊號懸掛下，仍需按公司指定擔任正常或臨時駕駛任務，而不獲任何額外酬勞。
- 十、 工作地點 : 公司可調派僱員於任何巴士路線及廠房工作。
- 十一、 工作性質 : 負責駕駛載客、非載客巴士，或公司指派的車輛。但在特別情況及按實際需要下，公司有權安排僱員留廠或擔任其他工作。
- 十二、 試用期 : 六個月，如僱員工作表現未符公司要求，公司有權將試用期延長三個月。通過試用期與否以公司書面通知為準。
- 十三、 離職通知期 : 1. 在試用期第一個月內，僱員或公司任何一方均可隨時終止僱傭關係而無需給予預先通知或以工資代替通知。
2. 在餘下之五個月試用期內，或在試用期滿後，如終止僱傭關係，任何一方必須在七天前以書面通知對方或以七天工資代替通知。



九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

- 十四、 即時解僱：公司在下列情況下，可即時解僱僱員，而無需給予預先通知或以工資代替通知，如僱員：
1. 故意不服從公司合法及合理的命令；
 2. 行為不檢；
 3. 欺詐、不忠實；或
 4. 慣常疏忽職守。
- 十五、 休息日：按香港僱傭法例由公司編配。
- 十六、 法定假日：按香港僱傭法例享有法定假日，因公司屬公共服務機構，倘未能在該法定假期編給休息，則另定日期補假。
- 十七、 年假：服務滿一年，可享有十天之有薪年假，如獲續合約而服務連續滿六年後則按香港僱傭法例，逐年增加至最多十四天。
- 十八、 病假：按香港僱傭法例計算，即在受僱期首十二個月，每月可累積兩天有薪病假，第十三個月起每個月可累積四天有薪病假，最高可累積一百二十天。
- 十九、 強制性公積金：僱員將參加強制性公積金計劃，公司及僱員均依照《強制性公積金計劃條例》的規定向強制性公積金計劃供款。供款額為僱員有關入息的百份之伍。
- 二十、 僱員需接受公司安排之駕駛技術及服務表現考核，如公司認為有需要，亦需接受體格檢驗，倘有不符公司要求者，公司保留停止僱用的權利。
- 廿一、 有效駕駛執照：僱員如獲公司授權駕駛公司車輛，必須確定本身持有有效及適用車輛類別的香港駕駛執照，以免觸犯香港交通條例及受公司紀律處分。僱員因任何事件而引致其駕駛執照被取消（停牌），則公司可予以即時解僱，而無需給予預先通知或以工資代替通知。
- 廿二、 違反交通規例：僱員如違反任何交通條例及經被定罪，不論該違例事項是否在當值期間發生或是否被扣分，應立即向公司報告。
- 廿三、 兼職工作：僱員在擔任車長工作時間以外，擔任其他工作，必須事先向公司申請，僱員未獲公司批准而擅自兼職，經發現者公司保留停止僱用的權利。



九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

- 廿四、 服務規則 : 僱員必須遵守服務規則、工作指引及公司通告，請登人員工網www.kmb.org.hk 查閱「車務外勤員工服務手冊」和「董事及僱員紀律守則」。合約內有關工作之安排，員工可參閱該等服務規則、工作指引及公司通告。公司有權隨時修改有關規則及指引以及相關通告，所有增減或修改，以公司最新公佈為準。
- 廿五、 其他 : 所有退休福利，包括但不限於歡送金、帛金、金牌及退休免費乘車證等等，只限於年屆 60 歲離職時，已經服務公司滿十年的僱員。
- 廿六、 工作調配 : 公司有權安排僱員在載通集團或其下任何公司擔任相關職能的工作。僱員亦須遵守有關工作調配之服務規則。
- 廿七、 此僱傭合約會取代任何之前就有關此職位之僱傭條件及細則所訂立之口頭或書面協議。

經理 (人力資源): _____



二零一八年八月廿一日

本人明白及自願同意以上所列之僱傭條件，同時收取此僱傭合約副本一份。

僱員簽署: _____

僱員編號: _____

日期: _____

22-8-2018


OL/SC/CC

-完-

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

File no.: HR/Resourcing/

The Kowloon Motor Bus Co. (1933) Ltd. (hereinafter referred to as the “Company”) is now hiring Mr. _____ HKID no. _____ (hereinafter referred to as the “Employee”) as bus captain, and both parties agree on the following conditions of employment:

1. Start date: 22 August 2018
2. 2 - year contract term: 22 August 2018 to 21 August 2020
3. Training period: The training period shall commence from the start date of employment, and the number of training days shall be determined depending on the progress of the Employee’s training. Whether the Employee passes the training shall be subject to the Company’s written notice.

In case the Employee is only holding a local 1 / 1A driving licence at the time of enrollment:

1. Each Employee may be arranged for up to two bus driving tests by the Transport Department (“TD”);
2. In case the Employee fails the first TD bus driving test, he/she shall be required to join the training session and shall be treated as taking unpaid leave during the period in which he/she is waiting for the second training session;
3. Unless the Company specifically approves, in case the Employee still fails the second TD bus driving test, the Employment Contract shall become invalid automatically due to its non-performance.
4. Except for the circumstances described in the

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

“Declaration of Bus Captain Training Guarantee”, Employees are exempted from training tuition fees of HK\$12,000.

4. Expiry of The employment relationship shall be contract: automatically terminated upon expiration of the contract.

5. Salary payment: On a monthly basis. The salary shall be paid once a month, usually on the seventh day after the end of each month.

6. Remuneration:

1. Basic salary: HK\$16,466 per month.
2. Overtime pay: If the actual work exceeds eight hours every day, the subsequent salary shall be paid in the form of overtime payment. The calculation method for each hour of overtime work is: monthly basic salary / 240 x 1.5
3. During the training period, the employees may only be paid basic salary. The calculation method is: monthly basic salary / number of days in the month x number of training days. (Overtime pay does not apply)

7. Sign-on bonus: The Employee shall receive a one-off “Sign-on bonus” of HK\$10,000 after passing the assessment and the probation period. Such bonus shall be distributed by two instalments of HK\$5,000 each.

1. The first instalment shall be distributed on the next salary payment date after the Employee has passed the assessment and the probation period (subject to written notice).
2. The second instalment shall be distributed on the next salary payment date after the Employee has joined the Company (including the training period) for 12 months and passed the probation period.

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

3. In case the Employee has passed the probation period but resigned before the date of distribution of the “Sign-on bonus”, the said “Sign-on bonus” shall not be distributed.
8. Year-end basic salary double pay: The Employee shall receive an additional year-end bonus equivalent to one-month basic salary before the Lunar New Year. The basic salary double pay shall be calculated based on the Employee’s basic salary as of 31 December of the previous year.
 1. The year-end basic salary double pay shall be distributed on a pro rata basis based on the date on which the Employee passes the probation period.
 2. In case the Employee has not passed the probation period on 31 December of the previous year, he/she shall not receive the basic salary double pay before the next Lunar New Year.
9. Working hours:
 1. The Employee must be on shift duty in accordance with the schedule set by the Company. Due to the different driving times for different routes, the Employee must work for eight hours or more than eight hours per day in compliance with the Company’s assignment.
 2. The Company reserves the right to arrange for the Employee to work the morning, night, special or overnight shift according to operational needs, and the Employee shall not object. The overnight shift allowance will be paid to the Employee working the overnight shift. In case the Employee works the overnight shift for less than one month, the overnight shift allowance shall be paid on a pro rata basis based on the number of days of the overnight shift.

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

3. As the Company is a public service organization, under abnormal weather conditions such as issuance of black rainstorm warning signals or typhoon signals, the Employee still needs to assume his/her driving duties as usual or on an ad hoc basis as assigned by the Company without any extra remuneration.

10. Work location: The Company may assign the Employee to work on any bus route and depot.

11. Nature of work: Responsible for driving passenger- and non-passenger buses, or any vehicles assigned by the Company. However, the Company reserves the right to arrange for the Employee to stay in the depot or to perform other duties under special circumstances and according to actual needs.

12. Probation period: Six months. In case the Employee's work performance does not meet the Company's requirements, the Company reserves the right to extend the probation period by three months. Whether the Employee passes the probation period shall be subject to the Company's written notice.

13. Notice of resignation: of 1. During the first month of the probation period, either the Employee or the Company may terminate the employment relationship at any time without prior notice or payment of wages in lieu of notice.
2. During the remaining five months of the probation period, or after the expiration of the probation period, any party who terminates the employment relationship must notify the other party in writing seven days in advance or pay an equivalent amount of wages in lieu of notice.

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

- 14.Immediate dismissal: Under any of the following circumstances, the Company may immediately dismiss the Employee without prior notice or payment of wages in lieu of notice:
1. Deliberately disobey the Company's legal and reasonable orders;
 2. Misconduct;
 3. Be fraudulent or unfaithful; or
 4. Habitual dereliction of duty.
- 15.Rest days: Arranged by the Company in accordance with the Hong Kong Employment Ordinance.
- 16.Statutory holidays: The Employee shall be entitled to statutory holidays under the Hong Kong Employment Ordinance. As the Company is a public service organization, where it is not possible to arrange for rest time during the statutory holiday, compensation leave shall be separately arranged.
- 17.Annual leave: The Employee may be entitled to 10 days of paid annual leave once he/she has worked for one year. In case his/her contract is renewed and he/she has worked for six consecutive years, the number of his/her annual leave shall be increased yearly up to a maximum of 14 days in accordance with the Hong Kong Employment Ordinance.
- 18.Sick leave: Calculated in accordance with the Hong Kong Employment Ordinance, that is, the Employee may accumulate two days of paid sick leave per month in the first 12 months of employment, and four days of paid sick leave per month from the 13th month, up to a maximum of 120 days.
- 19.Mandatory Provident Fund: The Employee shall join the Mandatory Provident Fund Scheme. The Company and the Employee shall contribute to the Mandatory Provident Fund

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

Scheme in accordance with the provisions of the Mandatory Provident Fund Schemes Ordinance. The contribution amount shall be 5% of the Employee's relevant income.

20. The Employee needs to be assessed in respect of his/her driving skills and service performance arranged by the Company. He/she also needs to take physical examination where the Company deems it necessary. In case of any failure to meet the Company's requirements, the Company reserves the right to terminate the employment.

21. Valid driving licence: Employees who are authorized by the Company to drive the Company's vehicles must confirm that they have a valid Hong Kong driving licence applicable to vehicle category to avoid infringement of the Hong Kong Traffic Ordinance and disciplinary action by the Company. In case the Employee's driving licence is cancelled (suspended) due to any event, the Company may immediately dismiss the Employee without prior notice or payment of wages in lieu of notice.

22. Breach of traffic regulations: Employees who contravene any traffic regulations and are convicted, should report to the Company immediately, irrespective of whether the violation occurs when they are on duty or whether the driving-offence points are recorded.

23. Part-time job: Employees who take any other job outside the working hours as a bus captain must apply to the Company in advance; the Employee shall not take any part-time job without obtaining the approval of the Company and the Company reserves the right to terminate the employment once discovered.

24. Terms of service: of Employees must comply with the Terms of Service, Work Guidelines and the Company's Notices. Please check the Service Manual for

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

Operation Staff and the Code of Conduct for Directors and Employees on the Staff Webpage at www.kmb.org.hk. For the work arrangements stipulated in the contract, employees may refer to such Terms of Service, Work Guidelines and the Company's Notices. The Company reserves the right to amend the relevant rules and guidelines and related notices at any time. All additions, deletions or amendments shall be subject to the latest announcement of the Company.

25. Miscellaneous: All retirement benefits, including but not limited to farewell bonus, memorial contributions, gold medals and retirement free passes, are limited to employees who have served the Company for 10 years when they leave the Company at the age of 60.

26. Job placement: The Company reserves the right to arrange for Employees to perform related functions in Transport International or any of its companies. Employees are also required to comply with the terms of service for the relevant job placement.

27. This employment contract shall supersede any prior oral or written agreement entered into in relation to the terms and conditions and details of the employment of this position.

Manager (Human Resources): _____ **[Chopped: Human Resources Department of KMB]**

21 August 2018

10.1

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

I understand and agree to the employment conditions listed above on my own will and receive a copy of this employment contract.

Signature of Employee: _____

Employee's number: _____

Date: 22 August 2018

-End-

[signed]
CL/SC/CC



九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

本部檔號：HR/Resourcing/[REDACTED]

九龍巴士（一九三三）有限公司（以下簡稱為“公司”）現聘請 [REDACTED] 先生，
香港身份證號碼 [REDACTED]（以下簡稱為“僱員”）為退休重聘車長，雙方同意下列
之僱傭條件：

- 一、 到職日期 : 二零一八年八月九日
- 二、 合約期 : 二零一八年八月九日至二零一九年八月八日
- 三、 合約期滿 : 合約期滿後，僱傭關係將自動終止。
- 四、 糧期 : 月薪制，每月出糧一次，通常為每個月完結後的第七日。
- 五、 工資 :
 1. 底薪 : 每月港幣 15,666 元。
 2. 過時補水 : 若每天實際工作超逾八小時，其後的薪津以過時補水形式發給，每小時計法為每月底薪數目÷240 × 1.5
- 六、 年尾底薪雙糧 : 僱員於大概農曆新年前可獲發多一個月的年尾底薪。底薪雙糧會按照僱員在前一年度十二月卅一日的底薪計算。
 1. 年尾底薪雙糧會按僱員入職日的日期起按比例發放。
 2. 若前一年度的年尾十二月卅一日僱員尚未入職，他/她將不會在下個農曆新年前獲發底薪雙糧。
- 七、 工作時間 :
 1. 僱員必須依照公司編定的時間表輪班輪休當值，因不同路線行車時間各有不同，僱員必須服從公司分配每日擔任八小時或超過八小時的工作。
 2. 公司有權按工作需要編排僱員當值早、夜、特別或通宵更，僱員不得異議。擔任通宵更，另有通宵津貼發給。僱員擔任通宵更不足一個月，通宵津貼依當值通宵日數按比例發給。
 3. 因公司屬公共服務機構，僱員在不正常天氣情況下，如黑色暴雨警告訊號或颱風訊號懸掛下，仍需按公司指定擔任正常或臨時駕駛任務，而不獲任何額外酬勞。



九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

- 八、 工作地點 : 公司可調派僱員於任何巴士路線及廠房工作。
- 九、 工作性質 : 負責駕駛載客、非載客巴士，或公司指派的車輛。但在特別情況及按實際需要下，公司有權安排僱員留廠或擔任其他工作。
- 十、 離職通知期 : 如終止僱傭關係，僱員或公司任何一方必須在七天前以書面通知對方或以七天工資代替通知。
- 十一、 即時解僱 : 公司在下列情況下，可即時解僱僱員，而無需給予預先通知或以工資代替通知，如僱員：
1. 故意不服從公司合法及合理的命令；
2. 行為不檢；
3. 欺詐、不忠實；或
4. 慣常疏忽職守。
- 十二、 休息日 : 按香港僱傭法例由公司編配。
- 十三、 法定假日 : 按香港僱傭法例享有法定假日，因公司屬公共服務機構，倘未能在該法定假期編給休息，則另定日期補假。
- 十四、 年假 : 服務滿一年，可享有14天之有薪年假。未滿一年者則按比例計算。
- 十五、 病假 : 按香港僱傭法例計算，即在受僱期首十二個月，每月可累積兩天有薪病假，第十三個月起每個月可累積四天有薪病假，最高可累積一百二十天。
- 十六、 強制性公積金 : 僱員將參加強制性公積金計劃，公司及僱員均依照《強制性公積金計劃條例》的規定向強制性公積金計劃供款。供款額為僱員有關入息的百份之伍。
- 十七、 僱員需接受公司安排之駕駛技術及服務表現考核，如公司認為有需要，亦需接受體格檢驗，倘有不合公司要求者，公司保留停止僱用的權利。
- 十八、 有效駕駛執照 : 僱員如獲公司授權駕駛公司車輛，必須確定本身持有有效及適用車輛類別的香港駕駛執照，以免觸犯香港交通條例及受公司紀律處分。僱員因任何事件而引致其駕駛執照被取消（停牌），則公司可予以即時解僱，而無需給予預先通知或以工資代替通知。

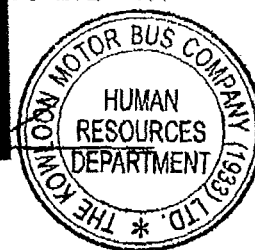


九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

- 十九、 違反交通規例 : 僱員如違反任何交通條例及經被定罪，不論該違例事項是否在當值期間發生或是否被扣分，應立即向公司報告。
- 二十、 兼職工作 : 僱員在擔任退休重聘車長工作時間以外，擔任其他工作，必須事先向公司申請，僱員未獲公司批准而擅自兼職，經發現者公司保留停止僱用的權利。
- 廿一、 服務規則 : 僱員必須遵守服務規則、工作指引及公司通告，請登入員工網 www.kmb.org.hk 查閱「車務外勤員工服務手冊」和「董事及僱員紀律守則」。合約內有關工作之安排，員工可參閱該等服務規則、工作指引及公司通告。公司有權隨時修改有關規則及指引以及相關通告，所有增減或修改，以公司最新公佈為準。
- 廿二、 工作調配 : 公司有權安排僱員在載通集團或其下任何公司擔任相關職能的工作。僱員亦須遵守有關工作調配之服務規則。
- 廿三、 其他 僱員在六十歲退休前擔任全職車長的服務年資並不會計算在此合約內。在僱員擔任退休重聘車長期間，公司會發給職員証予僱員，而僱員的退休証需交回人力資源部暫時保管，待僱員停任退休重聘車長時方予發回。
- 廿四、 此僱傭合約會取代任何之前就有關此職位之僱傭條件及細則所訂立之口頭或書面協議。

經理（人力資源）：_____



二零一八年八月六日

本人明白及自願同意以上所列之僱傭條件，同時收取此僱傭合約副本一份。

僱員簽署：_____

僱員編號：_____

日 期：_____

完

CL/SC/TM

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

File no.: HR/Resourcing/

The Kowloon Motor Bus Co. (1933) Ltd. (hereinafter referred to as the “Company”) is now hiring Mr. _____ HKID no. _____ (hereinafter referred to as the “Employee”) as bus captain (re-employed after retirement), and both parties agree on the following conditions of employment:

1. Start date: 9 August 2018
2. Contract term: 9 August 2018 to 8 August 2019
3. Expiry of contract: The employment relationship shall be automatically terminated upon expiration of the contract.
4. Salary payment: On a monthly basis. The salary shall be paid once a month, usually on the seventh day after the end of each month.
5. Remuneration:
 1. Basic salary: HK\$15,666 per month.
 2. Overtime pay: If the actual work exceeds eight hours every day, the subsequent salary shall be paid in the form of overtime payment. The calculation method for each hour of overtime work is: monthly basic salary / 240 x 1.5
6. Year-end basic salary double pay: The Employee shall receive an additional year-end bonus equivalent to one-month basic salary before the Lunar New Year. The basic salary double pay shall be calculated based on the Employee’s basic salary as of 31 December of the previous year.
 1. The year-end basic salary double pay shall be distributed on a pro rata basis based on the date on which the Employee passes the probation period.
 2. In case the Employee has not passed the

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

probation period on 31 December of the previous year, he/she shall not receive the basic salary double pay before the next Lunar New Year.

7. Working hours:
1. The Employee must be on shift duty in accordance with the schedule set by the Company. Due to the different driving times for different routes, the Employee must work for eight hours or more than eight hours per day in compliance with the Company's assignment.
 2. The Company reserves the right to arrange for the Employee to work the morning, night, special or overnight shift according to operational needs, and the Employee shall not object. The overnight shift allowance will be paid to the Employee working the overnight shift. In case the Employee works the overnight shift for less than one month, the overnight shift allowance shall be paid on a pro rata basis based on the number of days of the overnight shift.
 3. As the Company is a public service organization, under abnormal weather conditions such as issuance of black rainstorm warning signals or typhoon signals, the Employee still needs to assume his/her driving duties as usual or on an ad hoc basis as assigned by the Company without any extra remuneration.
8. Work location: The Company may assign the Employee to work on any bus route and depot.
9. Nature of work: Responsible for driving passenger- and non-passenger buses, or any vehicles assigned by the Company. However, the Company reserves the

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

right to arrange for the Employee to stay in the depot or to perform other duties under special circumstances and according to actual needs.

10. Notice of resignation: For termination of the employment relationship, either party must notify the other party in writing seven days in advance or pay an equivalent amount of wages in lieu of notice.
11. Immediate dismissal: Under any of the following circumstances, the Company may immediately dismiss the Employee without prior notice or payment of wages in lieu of notice:
1. Deliberately disobey the Company's legal and reasonable orders;
 2. Misconduct;
 3. Be fraudulent or unfaithful; or
 4. Habitual dereliction of duty.
12. Rest days: Arranged by the Company in accordance with the Hong Kong Employment Ordinance.
13. Statutory holidays: The Employee shall be entitled to statutory holidays under the Hong Kong Employment Ordinance. As the Company is a public service organization, where it is not possible to arrange for rest time during the statutory holiday, compensation leave shall be separately arranged.
14. Annual leave: The Employee may be entitled to 10 days of paid annual leave once he/she has worked for one year. In case his/her contract is renewed and he/she has worked for six consecutive years, the number of his/her annual leave shall be increased yearly up to a maximum of 14 days in accordance with the Hong Kong Employment Ordinance.
15. Sick leave: Calculated in accordance with the Hong Kong Employment Ordinance, that is, the Employee may

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

accumulate two days of paid sick leave per month in the first 12 months of employment, and four days of paid sick leave per month from the 13th month, up to a maximum of 120 days.

16.Mandatory Provident Fund: The Employee shall join the Mandatory Provident Fund Scheme. The Company and the Employee shall contribute to the Mandatory Provident Fund Scheme in accordance with the provisions of the Mandatory Provident Fund Schemes Ordinance. The contribution amount shall be 5% of the Employee's relevant income.

17.The Employee needs to be assessed in respect of his/her driving skills and service performance arranged by the Company. He/she also needs to take physical examination where the Company deems it necessary. In case of any failure to meet the Company's requirements, the Company reserves the right to terminate the employment.

18.Valid driving licence: Employees who are authorized by the Company to drive the Company's vehicles must confirm that they have a valid Hong Kong driving licence applicable to vehicle category to avoid infringement of the Hong Kong Traffic Ordinance and disciplinary action by the Company. In case the Employee's driving licence is cancelled (suspended) due to any event, the Company may immediately dismiss the Employee without prior notice or payment of wages in lieu of notice.

19.Breach of traffic regulations: Employees who contravene any traffic regulations and are convicted, should report to the Company immediately, irrespective of whether the violation occurs when they are on duty or whether the driving-offence points are recorded.

20.Part-time job: Employees who take any other job outside the working hours as a bus captain must apply to the

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

Company in advance; the Employee shall not take any part-time job without obtaining the approval of the Company and the Company reserves the right to terminate the employment once discovered.

21. Terms of service: of Employees must comply with the Terms of Service, Work Guidelines and the Company's Notices. Please check the Service Manual for Operation Staff and the Code of Conduct for Directors and Employees on the Staff Webpage at www.kmb.org.hk. For the work arrangements stipulated in the contract, employees may refer to such Terms of Service, Work Guidelines and the Company's Notices. The Company reserves the right to amend the relevant rules and guidelines and related notices at any time. All additions, deletions or amendments shall be subject to the latest announcement of the Company.
22. Job placement: The Company reserves the right to arrange for Employees to perform related functions in Transport International or any of its companies. Employees are also required to comply with the terms of service for the relevant job placement.
23. Miscellaneous: The length of service of an Employee who serves as a full-time bus captain before his/her retirement at the age of 60 shall not be counted herein. During the period of the re-employment of the Employee as the bus captain after his/her retirement, the Company shall issue a staff card to the Employee, and the Employee's retirement certificate shall be returned to the Human Resources Department for temporary custody, and returned to the Employee until he/she is no longer re-employed as bus captain after retirement.

This employment contract shall supersede any prior oral or written

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

agreement entered into in relation to the terms and conditions and details of the employment of this position.

This employment contract shall supersede any prior oral or written agreement entered into in relation to the terms and conditions and details of the employment of this position.

Manager (Human Resources): _____ **[Chopped: Human Resources Department of KMB]**

6 August 2018

I understand and agree to the employment conditions listed above on my own will and receive a copy of this employment contract.

Signature of Employee: _____

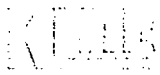
Employee's number: _____

Date: _____

-End-

[signed]



CL/SC/TM



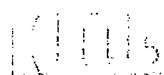
九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

本部檔號：HR/Resourcing/1957/2018(56398)

九龍巴士（一九三三）有限公司（以下簡稱為“公司”）現聘請  先生，
香港身份證號碼 （以下簡稱為“僱員”）為 時薪車長，雙方同意下列之僱
傭條件：

- 一、 到職日期 ：二零一八年八月廿二日
 - 二、 合約期一年 ：二零一八年八月廿二日至二零一九年八月廿一日
 - 三、 訓練期 ：由入職日起為訓練期，訓練日數視乎僱員的受訓進度而定，通
過訓練期與否，以公司書面通知為準。
- 若僱員入職時只持有本地 1 / 1A 駕駛執照：
- 1. 每名僱員可獲安排最多兩次運輸署的巴士駕駛考試；
 - 2. 如僱員未能通過首次的運輸署巴士駕駛考試，而需再次入
班受訓，等候第二次入班受訓期間將作無薪事假處理；
 - 3. 除非獲公司特別批准，否則如僱員仍然未能通過第二次的
運輸署巴士駕駛考試，本僱傭合約將因無法履約自動失效。
 - 4. 除了在「車長訓練保證金聲明」上所述的情況外，僱員可
獲豁免港幣 12,000 元的訓練學費。
- 四、 合約期滿 ：合約期滿後，僱傭關係將自動終止。
 - 五、 糧期 ：時薪制，每月出糧一次，通常為每個月完結後的第七日。
 - 六、 工資 ：1. 時薪：每小時港幣八十元。
2. 僱員在訓練期內可享有時薪。
 - 七、 工作時間 ：1. 工作時間由公司編配。
2. 因公司屬公共服務機構，僱員在不正常天氣情況下，如黑
色暴雨警告訊號或颱風訊號懸掛下，仍需按公司指定擔任
正常或臨時駕駛任務，而不獲任何額外酬勞。
3. 僱員在開工前應確保當天的身體及精神狀況可以應付為公
司擔任時薪車長的工作。倘若在當值期間身體及精神狀況
欠佳，需即時通知公司電台或當值站長，並停止駕駛工作。



九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

- 八、 工作地點及路線：由公司調派。
- 九、 工作性質：負責駕駛載客、非載客巴士，或公司指派的車輛。
- 十、 試用期：六個月，如僱員工作表現未符公司要求，公司有權將試用期延長三個月。通過試用期與否以公司書面通知為準。
- 十一、 離職通知期：1. 在第一個月內，僱員或公司任何一方均可隨時終止僱傭關係而無需給予預先通知或以工資代替通知。
2. 在第二個月或以後，任何一方必須預早七天書面通知或以七天工資代替通知。
- 十二、 即時解僱：公司在下列情況下，可即時解僱僱員，而無需給予預先通知或以工資代替通知，如僱員：
1. 故意不服從公司合法及合理的命令；
2. 行為不檢；
3. 欺詐、不忠實；或
4. 慣常疏忽職守。
- 十三、 休息日：按香港僱傭法例由公司編配，休息日屬無薪。
- 十四、 法定假日：按香港僱傭法例享有法定假日，因公司屬公共服務機構，倘未能在該法定假期編給休息，則另定日期補假。
- 十五、 年假：按香港僱傭法例發給。
- 十六、 病假：每月可累積兩天有薪病假額。如獲醫生簽發病假，一至三天屬無薪，如病假連續四天或以上，可使用累積有薪病假額，享受有薪病假。
- 十七、 強制性公積金：僱員將參加強制性公積金計劃，公司及僱員均依照《強制性公積金計劃條例》的規定向強制性公積金計劃供款。供款額為僱員有關入息的百份之伍。
- 十八、 僱員需接受公司安排之駕駛技術及服務表現考核，如公司認為有需要，亦需接受體格檢驗，倘有不符公司要求者，公司保留停止僱用的權利。

- 十九、法律責任 : 如僱員可能或被香港運輸署停牌, 僱員必須主動向公司申報, 並將有關文件副本交予公司, 如僱員被停牌, 則雙方的僱傭合約亦會自動終止。如有任何隱瞞或拖延申報, 無論任何原因, 僱員均須要負上全部法律責任, 包括因無牌駕駛引致的所有保險及法律責任, 公司同時亦保留一切追究權利。
- 二十、違反交通規例 : 僱員如違反任何交通條例及經被定罪, 不論該違例事項是否在當值期間發生或是否被扣分, 應立即向公司報告。
- 廿一、工作申報 : 僱員在擔任時薪車長工作時間以外, 擔任其他工作, 必須事先向公司申報。
- 廿二、服務規則 : 僱員必須遵守服務規則、公司通告及所有有關時薪車長之工作指引, 公司有權隨時修改有關規則、公司通告及指引, 所有增減或修改, 以公司最新公佈為準。
- 廿三、此僱傭合約已包括適用於僱員的所有僱傭條件, 並會取代任何之前就有關此職位之僱傭條件及細則所訂立之口頭或書面協議。

經理 (人力資源): _____



二零一八年八月廿一日

本人明白及自願同意以上所列之僱傭條件, 同時收取此僱傭合約副本一份。

僱員簽署: _____

僱員編號: _____

日 期: _____

22-8-2018

CL/SC/YML

-完-

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

File no.: HR/Resourcing/1957/2018(56398)

The Kowloon Motor Bus Co. (1933) Ltd. (hereinafter referred to as the “Company”) is now hiring Mr. _____ HKID no. _____ (hereinafter referred to as the “Employee”) as bus captain (hourly rate), and both parties agree on the following conditions of employment:

1. Start date: 22 August 2018
2. 2 - year contract term: 22 August 2018 to 21 August 2019
3. Training period: The training period shall commence from the start date of employment, and the number of training days shall be determined depending on the progress of the Employee’s training. Whether the Employee passes the training shall be subject to the Company’s written notice.

In case the Employee is only holding a local 1 / 1A driving licence at the time of enrollment:

1. Each Employee may be arranged for up to two bus driving tests by the Transport Department (“TD”);
2. In case the Employee fails the first TD bus driving test, he/she shall be required to join the training session and shall be treated as taking unpaid leave during the period in which he/she is waiting for the second training session;
3. Unless the Company specifically approves, in case the Employee still fails the second TD bus driving test, the Employment Contract shall become invalid automatically due to its non-performance.
4. Except for the circumstances described in the

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

“Declaration of Bus Captain Training Guarantee”, Employees are exempted from training tuition fees of HK\$12,000.

4. Expiry of The employment relationship shall be contract: automatically terminated upon expiration of the contract.
5. Salary payment: On a hourly basis. The salary shall be paid once a month, usually on the seventh day after the end of each month.
6. Remuneration:
 1. Hourly rate: HK\$80 per hour.
 2. Employees are entitled to hourly wages during the training period.
7. Working hours:
 1. The working hours shall be assigned by the Company.
 2. As the Company is a public service organization, under abnormal weather conditions such as issuance of black rainstorm warning signals or typhoon signals, the Employee still needs to assume his/her driving duties as usual or on an ad hoc basis as assigned by the Company without any extra remuneration.
 3. Employees should ensure that his/her physical and mental conditions of the day are suitable to serve as the Company's bus captain paid at an hourly rate before starting his/her work. In case the physical and mental conditions are unsatisfactory during his/her duty, he/she shall immediately notify the radio station or the duty stationmaster of the Company and stop driving.
8. Work location As assigned by the Company.
and routes:
9. Nature of work: Responsible for driving passenger- and non-

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

passenger buses, or any vehicles assigned by the Company. However, the Company reserves the right to arrange for the Employee to stay in the depot or to perform other duties under special circumstances and according to actual needs.

10.Probation
period:

Six months. In case the Employee's work performance does not meet the Company's requirements, the Company reserves the right to extend the probation period by three months. Whether the Employee passes the probation period shall be subject to the Company's written notice.

11.Notice
resignation:

- of
1. During the first month of the probation period, either the Employee or the Company may terminate the employment relationship at any time without prior notice or payment of wages in lieu of notice.
 2. During or after the second month of the probation period, either party must notify the other party in writing seven days in advance or pay an equivalent amount of wages in lieu of notice.

12.Immediate
dismissal:

Under any of the following circumstances, the Company may immediately dismiss the Employee without prior notice or payment of wages in lieu of notice:

1. Deliberately disobey the Company's legal and reasonable orders;
2. Misconduct:
3. Be fraudulent or unfaithful; or
4. Habitual dereliction of duty.

13.Rest days:

Arranged by the Company in accordance with the Hong Kong Employment Ordinance; rest days are unpaid.

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

14. Statutory holidays: The Employee shall be entitled to statutory holidays under the Hong Kong Employment Ordinance. As the Company is a public service organization, where it is not possible to arrange for rest time during the statutory holiday, compensation leave shall be separately arranged.
15. Annual leave: Granted in accordance with the Hong Kong Employment Ordinance.
16. Sick leave: Two days of paid sick leave may be accumulated each month. In case the Employee is granted sick leave from the doctor, one to three days are unpaid. In case the Employee is granted sick leave for four days or more, he/she may use the accumulated paid sick leave and is entitled to paid sick leave.
17. Mandatory Provident Fund: The Employee shall join the Mandatory Provident Fund Scheme. The Company and the Employee shall contribute to the Mandatory Provident Fund Scheme in accordance with the provisions of the Mandatory Provident Fund Schemes Ordinance. The contribution amount shall be 5% of the Employee's relevant income.
18. The Employee needs to be assessed in respect of his/her driving skills and service performance arranged by the Company. He/she also needs to take physical examination where the Company deems it necessary. In case of any failure to meet the Company's requirements, the Company reserves the right to terminate the employment.
19. Legal liability: In case an Employee may be suspended by the Hong Kong Transport Department, he/she must take the initiative to report to the Company and submit a copy of the relevant documents to the Company. In case the Employee is suspended, the employment contract between the two parties shall be automatically terminated. In case there is any

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

concealment or delay in reporting, the Employee must be fully liable for any reason, including all insurance and legal liabilities arising from unlicensed driving. The Company also reserves all rights to take further actions.

20. Breach of traffic regulations: Employees who contravene any traffic regulations and are convicted, should report to the Company immediately, irrespective of whether the violation occurs when they are on duty or whether the driving-offence points are recorded.

21. Job declaration: Employees who take any other job outside the working hours as a hourly-rate bus captain must report to the Company in advance.

22. Terms of service: Employees must comply with the Terms of Service, the Company's Notices, and all Work Guidelines relating to bus captains paid at hourly rate. The Company reserves the right to amend the relevant rules, the Company's Notices and guidelines at any time. All additions, deletions or amendments shall be subject to the latest announcement of the Company.

23. This employment contract includes all conditions of employment applicable to the Employee and shall supersede any prior oral or written agreement entered into in relation to the terms and conditions and details of the employment of this position.

Manager (Human Resources): _____ **[Chopped: Human Resources Department of KMB]**

21 August 2018

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

I understand and agree to the employment conditions listed above on my own will and receive a copy of this employment contract.

Signature of Employee: _____

Employee's number: _____

Date: 22 August 2018

-End-

[signed]

CL/SC/YML



九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

本部檔號：HR/Resourcing/

九龍巴士（一九三三）有限公司（以下簡稱為“公司”）現聘請 先生，
香港身份證號碼 （以下簡稱為“僱員”）為 退休重聘車長，雙方同意下列
之僱傭條件：

- 一、 到職日期 : 二零一八年八月九日
- 二、 合約期一年 : 二零一八年八月九日至二零一九年八月八日
- 三、 合約期滿 : 合約期滿後，僱傭關係將自動終止。
- 四、 糧期 : 時薪制，每月出糧一次，通常為每個月完結後的第七日。
- 五、 工資 : 每小時港幣七十五元。
在合約期內，僱員將不會獲發給年終酬金、年尾獎金或農曆新年獎金。
- 六、 工作時間 : 1. 僱員必須依照公司編定的時間表輪班當值。
2. 因公司屬公共服務機構，僱員在不正常天氣情況下，如黑色暴雨警告訊號或颱風訊號懸掛下，仍需按公司指定擔任正常或臨時駕駛任務，而不獲任何額外酬勞。
- 七、 工作地點 : 公司可調派僱員於任何巴士路線及廠房工作。
- 八、 工作性質 : 負責駕駛載客、非載客巴士，或公司指派的車輛。
- 九、 離職通知期 : 1. 在第一個月內，僱員或公司任何一方均可隨時終止僱傭關係而無需給予預先通知或以工資代替通知。
2. 在第二個月或以後，任何一方必須預早七天書面通知或以七天工資代替通知。
- 十、 即時解僱 : 公司在下列情況下，可即時解僱僱員，而無需給予預先通知或以工資代替通知，如僱員：
1. 故意不服從公司合法及合理的命令；
2. 行為不檢；



九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

3. 欺詐、不忠實；或
4. 慣常疏忽職守。

- 十一、 休息日 : 香港僱傭法例由公司編配，休息日屬無薪。
- 十二、 法定假日 : 按香港僱傭法例享有法定假日，因公司屬公共服務機構，倘未能在該法定假期編給休息，則另定日期補假。
- 十三、 年假 : 按香港僱傭法例發給。
- 十四、 病假 : 每月可累積兩天有薪病假額。如獲醫生簽發病假，一至三天屬無薪，如病假連續四天或以上，可使用累積有薪病假額，享受有薪病假。
- 十五、 醫療福利 : 僱員可免費享受本公司醫療中心提供的服務，惟不受本公司現時向全職員工提供的團體住院保險或意外保險保障。
- 十六、 強制性公積金 : 僱員將參加強制性公積金計劃，公司及僱員均依照《強制性公積金計劃條例》的規定向強制性公積金計劃供款。供款額為僱員有關入息的百份之伍。
- 十七、 僱員需接受公司安排之駕駛技術及服務表現考核，如公司認為有需要，亦需接受體格檢驗，倘有不符公司要求者，公司保留終止合約的權利。
- 十八、 法律責任 : 如僱員可能或被香港運輸署停牌，僱員必須主動向公司申報，並將有關文件副本交予公司，如僱員被停牌，則雙方的僱傭合約亦會自動終止。如有任何隱瞞或拖延申報，無論任何原因，僱員均須要負上全部法律責任，包括因無牌駕駛引致的所有保險及法律責任，公司同時亦保留一切追究權利。
- 十九、 違反交通規例 : 僱員如違反任何交通條例及經被定罪，不論該違例事項是否在當值期間發生或是否被扣分，應立即向公司報告。
- 二十、 工作申報 : 僱員在擔任退休重聘車長工作時間以外，擔任其他工作，必須事先向公司申報。



九龍巴士（一九三三）有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

機 密

- 廿一、 服務規則 : 僱員必須遵守服務規則、公司通告及所有有關退休重聘車長之工作指引，公司有權隨時修改有關規則、公司通告及工作指引，所有增減或修改，以公司最新公佈為準。
- 廿二、 其他 : 僱員在本合約期前擔任全職車長的服務年資並不會計算在此合約內。在僱員擔任退休重聘車長期間，公司會發給職員証予僱員，而僱員的退休証需交回人力資源部暫時保管，待僱員停任退休重聘車長時方予發回。
- 廿三、 此僱傭合約會取代任何之前就有關此職位之僱傭條件及細則所訂立之口頭或書面協議。

經理（人力資源）：_____



二零一八年八月六日

本人明白及自願同意以上所列之僱傭條件，同時收取此僱傭合約副本一份。

僱員簽署：_____

僱員編號：_____

日 期：_____

CL/SC/TM

- 完 -

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

File no.: HR/Resourcing/

The Kowloon Motor Bus Co. (1933) Ltd. (hereinafter referred to as the “Company”) is now hiring Mr. _____ HKID no. _____ (hereinafter referred to as the “Employee”) as bus captain (re-employed after retirement), and both parties agree on the following conditions of employment:

1. Start date: 9 August 2018
2. 1 - year contract term: 9 August 2018 to 8 August 2019
3. Expiry of contract: of The employment relationship shall be automatically terminated upon expiration of the contract.
4. Salary payment: On a hourly basis. The salary shall be paid once a month, usually on the seventh day after the end of each month.
5. Remuneration: HK\$75 per hour.
During the contract period, Employees shall not be entitled to year-end remuneration, year-end bonus or a Lunar New Year bonus.
6. Working hours:
 1. The Employee must be on shift duty in accordance with the schedule set by the Company.
 2. As the Company is a public service organization, under abnormal weather conditions such as issuance of black rainstorm warning signals or typhoon signals, the Employee still needs to assume his/her driving duties as usual or on an ad hoc basis as assigned by the Company without any extra remuneration.
7. Work location: The Company may assign the Employee to work

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

on any bus route and depot.

8. Nature of work: Responsible for driving passenger- and non-passenger buses, or any vehicles assigned by the Company.

9. Notice of resignation: 1. During the first month, either the Employee or the Company may terminate the employment relationship at any time without prior notice or payment of wages in lieu of notice.
2. During or after the second month of the probation period, either party must notify the other party in writing seven days in advance or pay an equivalent amount of wages in lieu of notice.

10. Immediate dismissal: Under any of the following circumstances, the Company may immediately dismiss the Employee without prior notice or payment of wages in lieu of notice:
1. Deliberately disobey the Company's legal and reasonable orders;
2. Misconduct;
3. Be fraudulent or unfaithful; or
4. Habitual dereliction of duty.

11. Rest days: Arranged by the Company in accordance with the Hong Kong Employment Ordinance; rest days are unpaid.

12. Statutory holidays: The Employee shall be entitled to statutory holidays under the Hong Kong Employment Ordinance. As the Company is a public service organization, where it is not possible to arrange for rest time during the statutory holiday, compensation leave shall be separately arranged.

13. Annual leave: Granted in accordance with the Hong Kong

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

Employment Ordinance.

14. Sick leave: Two days of paid sick leave may be accumulated each month. In case the Employee is granted sick leave from the doctor, one to three days are unpaid. In case the Employee is granted sick leave for four days or more, he/she may use the accumulated paid sick leave and is entitled to paid sick leave.
15. Medical benefits: Employees may be entitled to the services provided by the Company's medical center free of charge, but are not entitled to the group hospitalization insurance or accident insurance provided by the Company to full-time employees.
16. Mandatory Provident Fund: The Employee shall join the Mandatory Provident Fund Scheme. The Company and the Employee shall contribute to the Mandatory Provident Fund Scheme in accordance with the provisions of the Mandatory Provident Fund Schemes Ordinance. The contribution amount shall be 5% of the Employee's relevant income.
17. The Employee needs to be assessed in respect of his/her driving skills and service performance arranged by the Company. He/she also needs to take physical examination where the Company deems it necessary. In case of any failure to meet the Company's requirements, the Company reserves the right to terminate the employment.
18. Legal liability: In case an Employee may be suspended by the Hong Kong Transport Department, he/she must take the initiative to report to the Company and submit a copy of the relevant documents to the Company. In case the Employee is suspended, the employment contract between the two parties shall be automatically terminated. In case there is any concealment or delay in reporting, the Employee must be fully liable for any reason, including all insurance and legal liabilities arising from

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

unlicensed driving. The Company also reserves all rights to take further actions.

19. Breach of traffic regulations: Employees who contravene any traffic regulations and are convicted, should report to the Company immediately, irrespective of whether the violation occurs when they are on duty or whether the driving-offence points are recorded.
20. Job declaration: Employees who take any other job outside the working hours as a hourly-rate bus captain must report to the Company in advance.
21. Terms of service: Employees must comply with the Terms of Service, the Company's Notices, and all Work Guidelines relating to bus captains paid at hourly rate. The Company reserves the right to amend the relevant rules, the Company's Notices and guidelines at any time. All additions, deletions or amendments shall be subject to the latest announcement of the Company.
22. Miscellaneous: The length of service of an Employee who serves as a full-time bus captain before the contract period shall not be counted herein. During the period of the re-employment of the Employee as the bus captain after his/her retirement, the Company shall issue a staff card to the Employee, and the Employee's retirement certificate shall be returned to the Human Resources Department for temporary custody, and returned to the Employee until he/she is no longer re-employed as bus captain after retirement.
23. This employment contract shall supersede any prior oral or written agreement entered into in relation to the terms and conditions and details of the employment of this position.

(Logo of KMB)

THE KOWLOON MOTOR BUS CO. (1933) LTD.

Confidential

Manager (Human Resources): _____ [Chopped: Human
Resources Department of KMB]

6 August 2018

I understand and agree to the employment conditions listed above on my own will and receive a copy of this employment contract.

Signature of Employee: _____

Employee's number: _____

Date: _____

-End-

[signed]
CL/SC/TM

| emp_no | name | depot_abbr | operating_date | route_no | run_no | bus_no | operating_route | departure_from | departure_time | operating_time | duration | max_speed | gps_pos_lat | gps_pos_long | link | speed_limit | Location | Action |
|--------|------|------------|----------------|----------|--------|--------|-----------------|----------------|---------------------|---------------------|----------|-----------|-------------|--------------|----------|-------------|-------------|--|
| | 黃 | KBD | 04/02/2018 | 94 | P05 | JY4396 | 94 | 黃石碼頭 | 04/02/2018 17:50:00 | 04/02/2018 17:56:29 | 3 | 80 | 22.41012433 | 114.3258513 | location | 50 | 北潭路 | Written warning |
| | 李 | LCD | 01/02/2018 | N260 | 01 | TE3786 | N260 | 尖沙 | 01/02/2018 03:20:00 | 01/02/2018 03:43:26 | 6 | 80 | 22.35637783 | 114.0306072 | location | 80 | 屯門公路青龍頭段 | Final warning |
| | 梁 | TMD | 29/01/2018 | 59M | S06 | MU5148 | 67M | 葵芳站 | 29/01/2018 17:00:00 | 29/01/2018 17:17:09 | 5 | 80 | 22.36740667 | 114.0574482 | location | 80 | 屯門公路近浪翠園 | Verbal warning |
| | 林 | KBD | 03/02/2018 | 13X | 06 | KG1650 | 213X | 安泰(南) | 03/02/2018 18:10:00 | 03/02/2018 19:11:19 | 9 | 84 | 22.32061117 | 114.1903107 | location | 80 | 東九龍走便近牛棚藝術村 | Verbal warning |
| | 陳 | KBD | 05/02/2018 | 268C | 20 | UD 759 | 268C | 朗屏站 | 05/02/2018 17:45:00 | 05/02/2018 18:13:00 | 2 | 80 | 22.44676967 | 114.0501033 | location | 80 | 元朗公路支路往青朗公路 | Verbal warning |
| | 陳 | KBD | 05/02/2018 | 268C | 20 | UD 759 | 268C | 觀塘碼頭 | 05/02/2018 23:30:00 | 05/02/2018 23:49:02 | 8 | 83 | 22.3424085 | 114.1537348 | location | 80 | 呈祥道近明愛醫院 | |
| | 陳 | KBD | 06/02/2018 | 268C | 20 | TB8872 | 268C | 觀塘碼頭 | 06/02/2018 19:31:00 | 06/02/2018 20:24:42 | 11 | 80 | 22.431403 | 114.0628643 | location | 80 | 青朗公路近錦上路站 | |
| | 梁 | LCD | 10/02/2018 | 48X | 24 | KU1500 | 48X | 灣景花園 | 10/02/2018 21:32:00 | 10/02/2018 22:06:11 | 9 | 82 | 22.38163317 | 114.1755265 | location | 80 | 咸龍公路近美松苑 | Verbal warning |
| | 徐 | TMD | 05/02/2018 | 260X | S04 | JX7849 | 260X | 紅磡站 | 05/02/2018 11:30:00 | 05/02/2018 11:52:55 | 4 | 81 | 22.317142 | 114.1599595 | location | 80 | 西九公路近奧運站 | Verbal warning |
| | 陳 | TMD | 05/02/2018 | 58M | 07 | UF4942 | 58M | 良景 | 05/02/2018 15:10:00 | 05/02/2018 15:41:00 | 3 | 80 | 22.370855 | 114.0909843 | location | 80 | 屯門公路汀九段 | Incorporated in the verbal warning issued on 22 Feb 2018 |
| | 容 | KBD | 13/02/2018 | 98D | 08 | KG3458 | 98D | 坑口(北) | 13/02/2018 12:48:00 | 13/02/2018 13:08:44 | 2 | 80 | 22.311504 | 114.2330633 | location | 80 | 將軍澳道近翠屏南邨 | Verbal warning |
| | 蘇 | TMD | 29/01/2018 | 66M | 02 | RJ7188 | 66M | 大興 | 29/01/2018 18:50:00 | 29/01/2018 19:01:17 | 3 | 80 | 22.377422 | 113.9867145 | location | 80 | 屯門公路青山灣段 | Verbal warning |
| | 何 | KBD | 03/02/2018 | 296A | 61 | KD7664 | 296A | 尚德 | 03/02/2018 12:50:00 | 03/02/2018 13:15:24 | 5 | 81 | 22.31842083 | 114.2569022 | location | 80 | 將軍澳道近公路近新都城 | Verbal warning |
| | 何 | KBD | 05/02/2018 | 296A | 01 | VD4052 | 296A | 尚德 | 05/02/2018 14:08:00 | 05/02/2018 14:15:24 | 2 | 81 | 22.31159867 | 114.2333388 | location | 80 | 將軍澳道近翠屏南邨 | |
| | 王 | LCD | 03/02/2018 | 905 | 06 | TR4966 | 905 | 荔枝角 | 03/02/2018 06:55:00 | 03/02/2018 07:23:44 | 6 | 80 | 22.29989883 | 114.1555522 | location | 80 | 西區公路九龍入口 | |
| | 鄧 | TMD | 29/01/2018 | 67M | S11 | UE4144 | 67M | 葵芳站 | 29/01/2018 11:30:00 | 29/01/2018 12:09:50 | 31 | 67 | 22.408701 | 113.9801317 | location | 50 | 青山公路嶺南段 | Final warning |
| | 吳 | TMD | 07/02/2018 | E34A | 07 | TJ7312 | E34A | 地面運輸中心 | 07/02/2018 16:35:00 | 07/02/2018 17:23:11 | 20 | 83 | 22.43058633 | 114.0631752 | location | 80 | 青朗公路近錦上路站 | Verbal warning |
| | 吳 | TMD | 07/02/2018 | E34A | 07 | TJ7312 | E34A | 地面運輸中心 | 08/02/2018 00:00:00 | 08/02/2018 00:43:27 | 8 | 80 | 22.43176117 | 114.0627645 | location | 80 | 青朗公路近錦上路站 | |
| | 關 | TMD | 31/01/2018 | 67X | 02 | SA8730 | 67X | 兆康苑 | 31/01/2018 22:53:00 | 31/01/2018 23:14:07 | 11 | 83 | 22.36695112 | 114.054671 | location | 80 | 屯門公路近浪翠園 | Verbal warning |
| | 梁 | TMD | 30/01/2018 | 59A | 01 | UU7569 | 59X | 屯門碼頭 | 30/01/2018 10:08:00 | 30/01/2018 10:33:44 | 2 | 80 | 22.37410567 | 114.1026228 | location | 80 | 屯門公路近龍城花園 | Verbal warning |
| | 關 | TMD | 30/01/2018 | 59X | 104 | VCS294 | 59X | 旺角東站 | 30/01/2018 19:25:00 | 30/01/2018 20:07:36 | 5 | 82 | 22.35762083 | 114.0327242 | location | 80 | 屯門公路青龍頭段 | Written warning (poor performance) |
| | 劉 | TMD | 06/02/2018 | 58M | S01 | KN7970 | 58P | 葵芳站 | 06/02/2018 18:30:00 | 06/02/2018 18:57:22 | 2 | 80 | 22.365687 | 114.0469593 | location | 80 | 屯門公路近浪翠園 | Verbal warning |
| | 陳 | KBD | 11/02/2018 | 96R | S10 | SY4050 | 96R | 鑽石山站 | 11/02/2018 09:00:00 | 11/02/2018 10:48:21 | 5 | 84 | 22.33674417 | 114.2426618 | location | 80 | 清水灣道近清水灣山莊 | Verbal warning |
| | 陳 | KBD | 11/02/2018 | 96R | S10 | SY4050 | 96R | 黃石碼頭 | 11/02/2018 16:15:00 | 11/02/2018 17:00:28 | 3 | 82 | 22.336502 | 114.242473 | location | 80 | 清水灣道近清水灣山莊 | |
| | 浦 | TMD | 02/02/2018 | 68X | L05 | VD5442 | 268X | 洪水橋洪福 | 02/02/2018 14:45:00 | 02/02/2018 15:22:34 | 2 | 80 | 22.374032 | 114.1021813 | location | 80 | 屯門公路近龍城花園 | Incorporated in the verbal warning issued on 22 Jan 2018 |

This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.

本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。

11.1

| emp _ no | name | depot _ abbr | operat ing date | route_ no | bus _ no | oper ating rout e | depart ure from | depart ure time | operat ing time | dura tion | max_ speed | gps_ pos_ lat | gps_ pos_ long | link | speed _ limit | Location | Action |
|-------------|---------------------|-----------------|-----------------------|--------------|--------------------|----------------------------|-----------------------------|--------------------------------|--------------------------------|--------------|---------------|---------------------|----------------------|-----------------|------------------|--|--------------------|
| [redacted] | Wong [redacted] | KBD | 04/02/ 2018 | 94 | JY 43 96 | 94 | Wong Shek Pier | 04/02/ 2018 17:50: 00 | 04/02/ 2018 17:56: 29 | 3 | 80 | 22.41 01243 3 | 114.3 25851 3 | <u>location</u> | 50 | Pak Tam Road | Written warning |
| [redacted] | Cheuk [redacted] | LCD | 01/02/ 2018 | N260 | TE 37 86 | N26 0 | Mei Foo | 01/02/ 2018 03:20: 00 | 01/02/ 2018 03:43: 26 | 6 | 80 | 22.35 63778 3 | 114.0 30607 2 | <u>location</u> | 80 | Tuen Mun Road Tsing Lung Tau section | Final warning |
| [redacted] | Leung [redacted] | TMD | 29/01/ 2018 | 59M | M U5 14 8 | 67M | Kwai Fong Statio n | 29/01/ 2018 17:00: 00 | 29/01/ 2018 17:17: 09 | 5 | 80 | 22.36 74066 7 | 114.0 57448 2 | <u>location</u> | 80 | Tuen Mun Road near Sea Crest Villa | Verbal warning |
| [redacted] | Lam [redacted] | KBD | 03/02/ 2018 | 13X | KG 16 50 | 213 X | On Tai (Sout h) | 03/02/ 2018 18:10: 00 | 03/02/ 2018 19:11: 19 | 9 | 84 | 22.32 06111 7 | 114.1 90310 7 | <u>location</u> | 80 | East Kowloon Corridor near Cattle Depot Artists Village | Verbal warning |

This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.

本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。

11.1

| | | | | | | | | | | | | | | | | | |
|------------|----------------------|-----|------------|------|---------|------|-------------------|---------------------|---------------------|----|----|-------------|-------------|-----------------|----|---|----------------|
| [redacted] | Chan [redacted] Wing | KBD | 05/02/2018 | 268C | UD 759 | 268C | Long Ping Station | 05/02/2018 17:45:00 | 05/02/2018 18:13:00 | 2 | 80 | 22.44676967 | 114.0501033 | <u>location</u> | 80 | Yuen Long Highway slip road to Tsing Long Highway | Verbal warning |
| [redacted] | Chan [redacted] Wing | KBD | 05/02/2018 | 268C | UD 759 | 268C | Kwun Tong Pier | 05/02/2018 23:30:30 | 05/02/2018 23:49:02 | 8 | 83 | 22.3424085 | 114.1537348 | <u>location</u> | 80 | Ching Cheung Road near Ming Oi Hospital | |
| [redacted] | Chan [redacted] Wing | KBD | 06/02/2018 | 268C | TB 8872 | 268C | Kwun Tong Pier | 06/02/2018 19:31:00 | 06/02/2018 20:24:42 | 11 | 80 | 22.431403 | 114.0628643 | <u>location</u> | 80 | Tsing Long Highway near Kam Sheung Road Station | |
| [redacted] | Leung [redacted] | LCD | 10/02/2018 | 48X | KU 1500 | 48X | Bayview Garden | 10/02/2018 21:32:00 | 10/02/2018 22:06:11 | 9 | 82 | 22.38163317 | 114.1755265 | <u>location</u> | 80 | Shing Mun Tunnels Road near Mei Chung Court | Verbal warning |
| [redacted] | Tsui [redacted] | TMD | 05/02/2018 | 260X | JX 7849 | 260X | Hung Hom Station | 05/02/2018 11:30:00 | 05/02/2018 11:52:55 | 4 | 81 | 22.317142 | 114.1599595 | <u>location</u> | 80 | West Kowloon Highway near Olympic | Verbal warning |

This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.

本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。

11.1

| | | | | | | | | | | | | | | | | Station | |
|------------|---------------------|-----|------------|------|----------|-------|------------------|---------------------|---------------------|---|----|---------------|---------------|-----------------|----|--|--|
| [redacted] | Chan [redacted] Lok | TMD | 05/02/2018 | 58M | UF 49 42 | 58M | Leung King | 05/02/2018 15:10:00 | 05/02/2018 15:41:00 | 3 | 80 | 22.37 0855 | 114.0 90984 3 | <u>location</u> | 80 | Tuen Mun Road Ting Kau section | Incorporated in the verbal warning issued on 22 Feb 2018 |
| [redacted] | Yung [redacted] | KBD | 13/02/2018 | 98D | KG 34 58 | 98D | Hang Hau (North) | 13/02/2018 12:48:00 | 13/02/2018 13:08:44 | 2 | 80 | 22.31 1504 | 114.2 33063 3 | <u>location</u> | 80 | Tseung Kwan O Road near Tsui Ping South Estate | Verbal warning |
| [redacted] | Kan [redacted] | TMD | 29/01/2018 | 66M | RJ 71 88 | 66M | Tai Hing | 29/01/2018 18:50:00 | 29/01/2018 19:01:17 | 3 | 80 | 22.37 7422 | 114.9 86714 5 | <u>location</u> | 80 | Tuen Mun Road Castle Peak Road section | Verbal warning |
| [redacted] | Ho [redacted] | KBD | 03/02/2018 | 296A | KD 76 64 | 296 A | Sheung Tak | 03/02/2018 12:50:00 | 03/02/2018 13:15:24 | 5 | 81 | 22.31 84208 3 | 114.2 56902 2 | <u>location</u> | 80 | Tseung Kwan O Tunnel Road near The Metro City | Verbal warning |
| [redacted] | Ho [redacted] | KBD | 05/02/2018 | 296A | VD 40 | 296 A | Sheung Tak | 05/02/2018 | 05/02/2018 | 2 | 81 | 22.31 15986 | 114.2 33338 | <u>location</u> | 80 | Tseung Kwan O Road near | |

This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.

本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。

11.1

| | | | | | | | | | | | | | | | | | |
|------------|-----------------|-----|------------|------|----------|-------|------------------------------|---------------------|---------------------|----|----|---------------|---------------|-----------------|----|---|----------------|
| | ted] | | | | 52 | | | 14:08:00 | 14:15:24 | | | 7 | 8 | | | Tsui Ping South Estate | |
| [redacted] | Wong [redacted] | LCD | 03/02/2018 | 905 | TR 49 66 | 905 | Lai Chi Kok | 03/02/2018 06:55:00 | 03/02/2018 07:23:44 | 6 | 80 | 22.29 98988 3 | 114.1 55552 2 | <u>location</u> | 80 | Western Harbour Tunnel Road Kowloon entrance | Verbal warning |
| [redacted] | Tang [redacted] | TMD | 29/01/2018 | 67M | UE 41 44 | 67M | Kwai Fong Station | 29/01/2018 11:30:00 | 29/01/2018 12:09:50 | 31 | 67 | 22.40 8701 | 113.9 80131 7 | <u>location</u> | 50 | Castle Peak Road Ling Nan section | Final warning |
| [redacted] | Ng [redacted] | TMD | 07/02/2018 | E34A | TJ 73 12 | E34 A | Ground Transportation Centre | 07/02/2018 16:35:00 | 07/02/2018 17:23:11 | 20 | 83 | 22.43 05863 3 | 114.0 63175 2 | <u>location</u> | 80 | Tsing Long Highway near Kam Sheung Road Station | Verbal warning |
| [redacted] | Ng [redacted] | TMD | 07/02/2018 | E34A | TJ 73 12 | E34 B | Ground Transportation | 08/02/2018 00:00:00 | 08/02/2018 00:43:27 | 8 | 80 | 22.43 17611 7 | 114.0 62764 5 | <u>location</u> | 80 | Tsing Long Highway near Kam Sheung Road | |

This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.

本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。

11.1

| | | | | | | | | | | | | | | | | | |
|------------|--------------------|-----|----------------|-----|----------------|-----|------------------------------------|--------------------------------|--------------------------------|----|----|---------------------|---------------------|-----------------|----|---|---|
| | | | | | | | on Centr e | | | | | | | | | Station | |
| [redacted] | Kwan [redacted] | TMD | 31/01/ 2018 | 67X | SA 87 30 | 67X | Siu Hong Court | 31/01/ 2018 22:53: 00 | 31/01/ 2018 23:14: 07 | 11 | 83 | 22.36 69511 2 | 114.0 54671 | <u>location</u> | 80 | Tuen Mun Road near Sea Crest Villa | Verbal warning |
| [redacted] | Yip [redacted] | TMD | 30/01/ 2018 | 59A | UU 75 96 | 59X | Tuen Mun Pier | 30/01/ 2018 10:08: 00 | 30/01/ 2018 10:33: 44 | 2 | 80 | 22.37 41056 7 | 114.1 02622 8 | <u>location</u> | 80 | Tuen Mun Road near Belvedere Garden | Verbal warning |
| [redacted] | Kwan [redacted] | TMD | 30/01/ 2018 | 59X | VC S2 94 | 59X | Mong Kok East Statio n | 30/01/ 2018 19:25: 00 | 30/01/ 2018 20:07: 36 | 5 | 82 | 22.35 76208 3 | 114.0 32724 2 | <u>location</u> | 80 | Tuen Mun Road Tsing Lung Tau section | Written warning (poor performance) |
| [redacted] | Lau [redacted] | TMD | 06/02/ 2018 | 58M | KN 79 70 | 58P | Kwai Fong Statio n | 06/02/ 2018 18:30: 00 | 06/02/ 2018 18:57: 22 | 2 | 80 | 22.36 5687 | 114.0 46959 3 | <u>location</u> | 80 | Tuen Mun Road near Sea Crest Villa | Verbal warning |
| [redacted] | Chan [redacted] | KBD | 11/02/ 2018 | 96R | SY 40 | 96R | Diam ond | 11/02/ 2018 | 11/02/ 2018 | 5 | 84 | 22.33 67441 | 114.2 42661 | <u>location</u> | 80 | Clear Water Bay Road | Verbal warning |

This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.

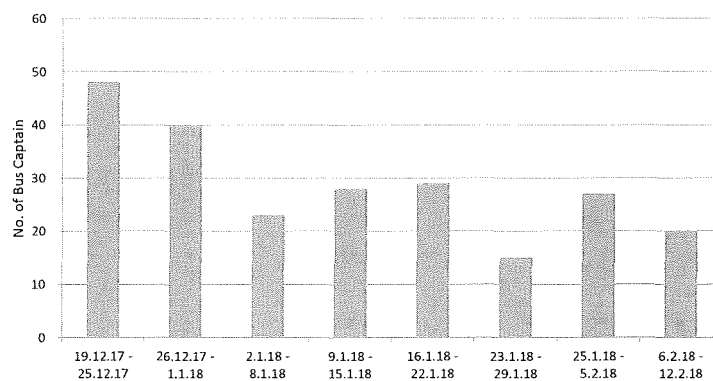
本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。

11.1

| | | | | | | | | | | | | | | | | | |
|----------------|-------------------------------|-----|----------------|-----|----------------|----------|------------------------------------|--------------------------------|--------------------------------|---|----|---------------|---------------------|-----------------|----|---|--|
| | ted] Yin | | | | 50 | | Hill Statio n | 09:00: 00 | 10:48: 21 | | | 7 | 8 | | | near Clear Water Bay Knoll | |
| [reda cted] | Chan [redac ted] Yin | KBD | 11/02/ 2018 | 96R | SY 40 50 | 96R | Wong Shek Pier | 11/02/ 2018 16:15: 00 | 11/02/ 2018 17:00: 28 | 3 | 82 | 22.33 6502 | 114.2 42473 | <u>location</u> | 80 | Clear Water Bay Road near Clear Water Bay Knoll | |
| [reda cted] | Po [redac ted] | TMD | 02/02/ 2018 | 68X | VD 54 42 | 268 X | Hung Shui Kiu Hung Fuk | 02/02/ 2018 14:45: 00 | 02/02/ 2018 15:22: 34 | 2 | 80 | 22.37 4032 | 114.1 02181 3 | <u>location</u> | 80 | Tuen Mun Road near Belvedere Garden | Incorporated in the verbal warning issued on 22 Jan 2018 |

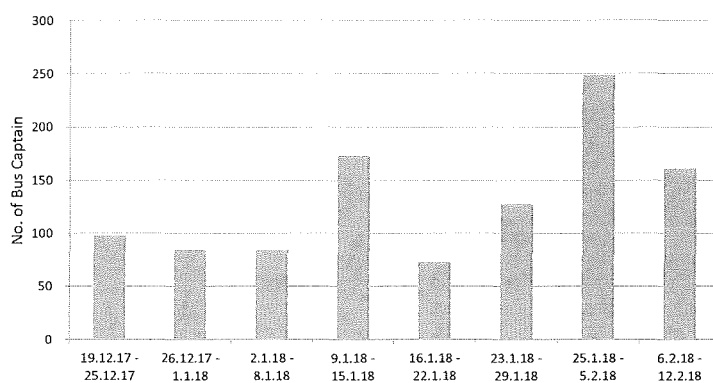
Speeding (accumulated more than 4 mins)

| Week | No. of Bus Captain |
|---------------------|--------------------|
| 19.12.17 - 25.12.17 | 48 |
| 26.12.17 - 1.1.18 | 40 |
| 2.1.18 - 8.1.18 | 23 |
| 9.1.18 - 15.1.18 | 28 |
| 16.1.18 - 22.1.18 | 29 |
| 23.1.18 - 29.1.18 | 15 |
| 25.1.18 - 5.2.18 | 27 |
| 6.2.18 - 12.2.18 | 20 |



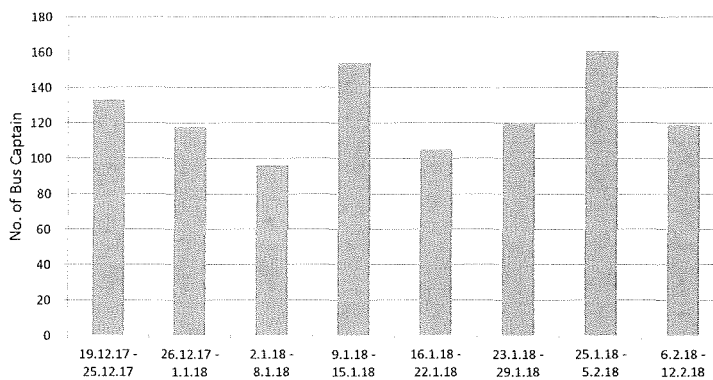
Sudden Acceleration (accumulated more than 60 mins)

| Week | No. of Bus Captain |
|---------------------|--------------------|
| 19.12.17 - 25.12.17 | 98 |
| 26.12.17 - 1.1.18 | 84 |
| 2.1.18 - 8.1.18 | 84 |
| 9.1.18 - 15.1.18 | 173 |
| 16.1.18 - 22.1.18 | 73 |
| 23.1.18 - 29.1.18 | 128 |
| 25.1.18 - 5.2.18 | 249 |
| 6.2.18 - 12.2.18 | 161 |



Harsh Brake (accumulated more than 4 mins)

| Week | No. of Bus Captain |
|---------------------|--------------------|
| 19.12.17 - 25.12.17 | 133 |
| 26.12.17 - 1.1.18 | 118 |
| 2.1.18 - 8.1.18 | 96 |
| 9.1.18 - 15.1.18 | 154 |
| 16.1.18 - 22.1.18 | 105 |
| 23.1.18 - 29.1.18 | 120 |
| 25.1.18 - 5.2.18 | 161 |
| 6.2.18 - 12.2.18 | 119 |



| Speeding (accumulated more than 4 mins) | | | | 6.2.18 - 12.2.18 (both dates inclusive) |
|---|--------------|-------|---|---|
| No. | Employee No. | Depot | Speeding accumulated (speed > 75kph) | No. of appearance since 28.3.2017 |
| 1 | 69 | 荔枝角廠 | 13 mins | 5 |
| 2 | 53 | 九龍灣廠 | 10 mins | 3 |
| 3 | 66 | 屯門廠 | 8 mins | 3 |
| 4 | 54 | 九龍灣廠 | 8 mins | 12 |
| 5 | 71 | 屯門廠 | 7 mins | 6 |
| 6 | 92 | 龍運 | 6 mins | 1 |
| 7 | 71 | 屯門廠 | 6 mins | 5 |
| 8 | 53 | 屯門廠 | 5 mins | 5 |
| 9 | 57 | 屯門廠 | 5 mins | 13 |
| 10 | 12 | 屯門廠 | 5 mins | 8 |
| 11 | 66 | 沙田廠 | 5 mins | 4 |
| 12 | 92 | 龍運 | 5 mins | 3 |
| 13 | 56 | 荔枝角廠 | 5 mins | 4 |
| 14 | 92 | 龍運 | 4 mins | 6 |
| 15 | 74 | 沙田廠 | 4 mins | 8 |
| 16 | 69 | 屯門廠 | 4 mins | 2 |
| 17 | 92 | 龍運 | 4 mins | 5 |
| 18 | 30 | 屯門廠 | 4 mins | 14 |
| 19 | 63 | 屯門廠 | 4 mins | 3 |
| 20 | 64 | 屯門廠 | 4 mins | 2 |

11.2.2

BC Performance from 6 Feb 2018 to 12 Feb 2018: Speeding

| Speeding (accumulated more than 4 mins) 6.2.18-12.2.18 (both dates inclusive) | | | | |
|--|---------------|-------------------|--------------------------------------|-----------------------------------|
| No. | Employee No. | Depot | Speeding accumulated (speed > 75kph) | No. of appearance since 28.3.2017 |
| 1 | 69[redacted] | Lai Chi Kok Depot | 13 mins | 5 |
| 2 | 53[redacted] | Kowloon Bay Depot | 10 mins | 3 |
| 3 | 66[redacted] | Tuen Mun Depot | 8 mins | 3 |
| 4 | 54[redacted] | Kowloon Bay Depot | 8 mins | 12 |
| 5 | 71[redacted] | Tuen Mun Depot | 7 mins | 6 |
| 6 | 92[redacted] | Long Win | 6 mins | 1 |
| 7 | 71[redacted] | Tuen Mun Depot | 6 mins | 5 |
| 8 | 53[redacted] | Tuen Mun Depot | 5 mins | 5 |
| 9 | 57[redacted] | Tuen Mun Depot | 5 mins | 13 |
| 10 | 12[redacted] | Tuen Mun Depot | 5 mins | 8 |
| 11 | 66[redacted] | Sha Tin Depot | 5 mins | 4 |
| 12 | 92[redacted] | Long Win | 5 mins | 3 |
| 13 | 56[redacted]5 | Lai Chi Kok Depot | 5 mins | 4 |
| 14 | 92[redacted] | Long Win | 4 mins | 6 |
| 15 | 74[redacted] | Sha Tin Depot | 4 mins | 8 |
| 16 | 69[redacted] | Tuen Mun Depot | 4 mins | 2 |
| 17 | 92[redacted] | Long Win | 4 mins | 5 |
| 18 | 30[redacted] | Tuen Mun Depot | 4 mins | 14 |
| 19 | 63[redacted] | Tuen Mun Depot | 4 mins | 3 |
| 20 | 64[redacted] | Tuen Mun Depot | 4 mins | 2 |

BC Performance from 6 Feb 2018 to 12 Feb 2018: Sudden Acceleration

| Sudden Acceleration (accumulated more than 60 mins) 6.2.18-12.2.18 (both dates inclusive) | | | | |
|--|---------------|-------------------|---|-----------------------------------|
| No. | Employee No. | Depot | Sudden Acceleration accumulated (Acceleration > 4kph) | No. of appearance since 28.3.2017 |
| 1 | 60[redacted] | Lai Chi Kok Depot | 93 mins | 27 |
| 2 | 560[redacted] | Kowloon Bay Depot | 92 mins | 2 |
| 3 | 60[redacted] | Tuen Mun Depot | 91 mins | 15 |
| 4 | 66[redacted] | Tuen Mun Depot | 90 mins | 15 |
| 5 | 60[redacted] | Lai Chi Kok Depot | 90 mins | 10 |
| 6 | 74[redacted] | Sha Tin Depot | 89 mins | 19 |
| 7 | 61[redacted] | Kowloon Bay Depot | 87 mins | 10 |
| 8 | 60[redacted] | Lai Chi Kok Depot | 86 mins | 12 |
| 9 | 54[redacted] | Lai Chi Kok Depot | 83 mins | 3 |
| 10 | 32[redacted] | Sha Tin Depot | 83 mins | 3 |
| 11 | 14[redacted] | Kowloon Bay Depot | 82 mins | 9 |
| 12 | 15[redacted] | Lai Chi Kok Depot | 81 mins | 2 |
| 13 | 63[redacted] | Lai Chi Kok Depot | 80 mins | 7 |
| 14 | 60[redacted] | Sha Tin Depot | 79 mins | 1 |
| 15 | 60[redacted] | Tuen Mun Depot | 79 mins | 13 |
| 16 | 60[redacted] | Kowloon Bay Depot | 78 mins | 9 |
| 17 | 61[redacted] | Kowloon Bay Depot | 78 mins | 3 |
| 18 | 61[redacted] | Lai Chi Kok Depot | 78 mins | 13 |
| 19 | 42[redacted] | Lai Chi Kok Depot | 78 mins | 2 |
| 20 | 80[redacted] | Kowloon Bay Depot | 77 mins | 6 |
| 21 | 72[redacted] | Kowloon Bay Depot | 76 mins | 3 |

| Sudden Acceleration (accumulated more than 60 mins) | | | | 6.2.18 - 12.2.18 (both dates inclusive) |
|---|--------------|-------|--|---|
| No. | Employee No. | Depot | Sudden Acceleration accumulated (Acceleration > 4kph/s) | No. of appearance since 28.3.2017 |
| 1 | 60 | 荔枝角廠 | 93 mins | 27 |
| 2 | 560 | 九龍灣廠 | 92 mins | 2 |
| 3 | 60 | 屯門廠 | 91 mins | 15 |
| 4 | 66 | 屯門廠 | 90 mins | 15 |
| 5 | 60 | 荔枝角廠 | 90 mins | 10 |
| 6 | 74 | 沙田廠 | 89 mins | 19 |
| 7 | 61 | 九龍灣廠 | 87 mins | 10 |
| 8 | 60 | 荔枝角廠 | 86 mins | 12 |
| 9 | 54 | 荔枝角廠 | 83 mins | 3 |
| 10 | 32 | 沙田廠 | 83 mins | 3 |
| 11 | 14 | 九龍灣廠 | 82 mins | 9 |
| 12 | 15 | 荔枝角廠 | 81 mins | 2 |
| 13 | 63 | 荔枝角廠 | 80 mins | 7 |
| 14 | 60 | 沙田廠 | 79 mins | 1 |
| 15 | 60 | 屯門廠 | 79 mins | 13 |
| 16 | 60 | 九龍灣廠 | 78 mins | 9 |
| 17 | 61 | 九龍灣廠 | 78 mins | 3 |
| 18 | 61 | 荔枝角廠 | 78 mins | 13 |
| 19 | 42 | 荔枝角廠 | 78 mins | 2 |
| 20 | 80 | 九龍灣廠 | 77 mins | 6 |
| 21 | 72 | 九龍灣廠 | 76 mins | 3 |
| 22 | 71 | 荔枝角廠 | 76 mins | 6 |
| 23 | 61 | 沙田廠 | 76 mins | 5 |
| 24 | 75 | 荔枝角廠 | 76 mins | 7 |
| 25 | 69 | 荔枝角廠 | 75 mins | 12 |
| 26 | 72 | 荔枝角廠 | 75 mins | 15 |
| 27 | 75 | 荔枝角廠 | 75 mins | 4 |
| 28 | 62 | 九龍灣廠 | 75 mins | 8 |
| 29 | 69 | 荔枝角廠 | 75 mins | 1 |
| 30 | 60 | 屯門廠 | 74 mins | 8 |
| 31 | 66 | 九龍灣廠 | 74 mins | 4 |
| 32 | 78 | 九龍灣廠 | 74 mins | 4 |
| 33 | 62 | 荔枝角廠 | 74 mins | 2 |
| 34 | 770 | 荔枝角廠 | 73 mins | 1 |
| 35 | 71 | 屯門廠 | 73 mins | 5 |
| 36 | 73 | 荔枝角廠 | 73 mins | 9 |
| 37 | 85 | 九龍灣廠 | 73 mins | 2 |
| 38 | 75 | 沙田廠 | 73 mins | 1 |
| 39 | 72 | 沙田廠 | 73 mins | 6 |
| 40 | 71 | 荔枝角廠 | 72 mins | 3 |
| 41 | 69 | 荔枝角廠 | 72 mins | 1 |
| 42 | 65 | 九龍灣廠 | 72 mins | 2 |
| 43 | 568 | 九龍灣廠 | 71 mins | 2 |
| 44 | 72 | 荔枝角廠 | 71 mins | 9 |
| 45 | 77 | 荔枝角廠 | 71 mins | 4 |
| 46 | 60 | 九龍灣廠 | 71 mins | 1 |
| 47 | 44 | 九龍灣廠 | 70 mins | 1 |

| Sudden Acceleration (accumulated more than 60 mins) | | | | 6.2.18 - 12.2.18 (both dates inclusive) |
|---|--------------|-------|--|---|
| No. | Employee No. | Depot | Sudden Acceleration accumulated (Acceleration > 4kph/s) | No. of appearance since 28.3.2017 |
| 48 | 60 | 荔枝角廠 | 70 mins | 3 |
| 49 | 50 | 九龍灣廠 | 70 mins | 1 |
| 50 | 63 | 九龍灣廠 | 70 mins | 2 |
| 51 | 75 | 九龍灣廠 | 70 mins | 3 |
| 52 | 73 | 荔枝角廠 | 69 mins | 7 |
| 53 | 62 | 荔枝角廠 | 69 mins | 2 |
| 54 | 61 | 荔枝角廠 | 69 mins | 2 |
| 55 | 71 | 九龍灣廠 | 69 mins | 1 |
| 56 | 48 | 九龍灣廠 | 69 mins | 3 |
| 57 | 32 | 沙田廠 | 69 mins | 1 |
| 58 | 60 | 屯門廠 | 68 mins | 3 |
| 59 | 71 | 荔枝角廠 | 68 mins | 2 |
| 60 | 63 | 九龍灣廠 | 68 mins | 7 |
| 61 | 69 | 荔枝角廠 | 68 mins | 2 |
| 62 | 76 | 沙田廠 | 68 mins | 8 |
| 63 | 61 | 荔枝角廠 | 68 mins | 6 |
| 64 | 63 | 荔枝角廠 | 68 mins | 3 |
| 65 | 68 | 荔枝角廠 | 68 mins | 17 |
| 66 | 71 | 九龍灣廠 | 67 mins | 1 |
| 67 | 72 | 荔枝角廠 | 67 mins | 1 |
| 68 | 75 | 沙田廠 | 67 mins | 2 |
| 69 | 69 | 沙田廠 | 67 mins | 3 |
| 70 | 50 | 九龍灣廠 | 67 mins | 3 |
| 71 | 78 | 九龍灣廠 | 67 mins | 1 |
| 72 | 560 | 九龍灣廠 | 67 mins | 1 |
| 73 | 68 | 九龍灣廠 | 67 mins | 7 |
| 74 | 77 | 荔枝角廠 | 67 mins | 4 |
| 75 | 68 | 荔枝角廠 | 67 mins | 1 |
| 76 | 61 | 沙田廠 | 67 mins | 1 |
| 77 | 78 | 沙田廠 | 66 mins | 3 |
| 78 | 60 | 沙田廠 | 66 mins | 5 |
| 79 | 78 | 荔枝角廠 | 66 mins | 3 |
| 80 | 64 | 屯門廠 | 66 mins | 1 |
| 81 | 66 | 九龍灣廠 | 66 mins | 6 |
| 82 | 16 | 荔枝角廠 | 66 mins | 4 |
| 83 | 63 | 九龍灣廠 | 66 mins | 1 |
| 84 | 62 | 沙田廠 | 66 mins | 3 |
| 85 | 76 | 沙田廠 | 65 mins | 2 |
| 86 | 32 | 九龍灣廠 | 65 mins | 5 |
| 87 | 29 | 九龍灣廠 | 65 mins | 1 |
| 88 | 73 | 荔枝角廠 | 65 mins | 2 |
| 89 | 71 | 九龍灣廠 | 65 mins | 2 |
| 90 | 75 | 九龍灣廠 | 65 mins | 1 |
| 91 | 63 | 荔枝角廠 | 65 mins | 2 |
| 92 | 17 | 九龍灣廠 | 65 mins | 5 |
| 93 | 75 | 屯門廠 | 64 mins | 2 |
| 94 | 60 | 九龍灣廠 | 64 mins | 3 |

| Sudden Acceleration (accumulated more than 60 mins) | | | | 6.2.18 - 12.2.18 (both dates inclusive) |
|---|--------------|-------|--|---|
| No. | Employee No. | Depot | Sudden Acceleration accumulated (Acceleration > 4kph/s) | No. of appearance since 28.3.2017 |
| 95 | 73 | 荔枝角廠 | 64 mins | 2 |
| 96 | 21 | 屯門廠 | 64 mins | 2 |
| 97 | 35 | 荔枝角廠 | 64 mins | 3 |
| 98 | 72 | 荔枝角廠 | 64 mins | 2 |
| 99 | 53 | 九龍灣廠 | 64 mins | 2 |
| 100 | 10 | 九龍灣廠 | 64 mins | 5 |
| 101 | 56 | 九龍灣廠 | 64 mins | 4 |
| 102 | 68 | 荔枝角廠 | 64 mins | 3 |
| 103 | 71 | 九龍灣廠 | 64 mins | 2 |
| 104 | 11 | 荔枝角廠 | 63 mins | 1 |
| 105 | 64 | 九龍灣廠 | 63 mins | 2 |
| 106 | 73 | 荔枝角廠 | 63 mins | 2 |
| 107 | 78 | 沙田廠 | 63 mins | 2 |
| 108 | 62 | 沙田廠 | 63 mins | 10 |
| 109 | 85 | 沙田廠 | 63 mins | 1 |
| 110 | 55 | 九龍灣廠 | 63 mins | 2 |
| 111 | 60 | 沙田廠 | 63 mins | 5 |
| 112 | 23 | 沙田廠 | 63 mins | 4 |
| 113 | 54 | 沙田廠 | 63 mins | 2 |
| 114 | 66 | 九龍灣廠 | 63 mins | 3 |
| 115 | 73 | 荔枝角廠 | 63 mins | 6 |
| 116 | 78 | 九龍灣廠 | 63 mins | 2 |
| 117 | 78 | 荔枝角廠 | 63 mins | 1 |
| 118 | 69 | 九龍灣廠 | 62 mins | 3 |
| 119 | 92 | 龍運 | 62 mins | 1 |
| 120 | 68 | 荔枝角廠 | 62 mins | 7 |
| 121 | 64 | 九龍灣廠 | 62 mins | 7 |
| 122 | 37 | 荔枝角廠 | 62 mins | 2 |
| 123 | 81 | 沙田廠 | 62 mins | 1 |
| 124 | 62 | 荔枝角廠 | 62 mins | 6 |
| 125 | 65 | 九龍灣廠 | 62 mins | 3 |
| 126 | 77 | 九龍灣廠 | 62 mins | 4 |
| 127 | 48 | 九龍灣廠 | 62 mins | 2 |
| 128 | 70 | 荔枝角廠 | 62 mins | 1 |
| 129 | 48 | 沙田廠 | 61 mins | 1 |
| 130 | 34 | 沙田廠 | 61 mins | 2 |
| 131 | 54 | 荔枝角廠 | 61 mins | 1 |
| 132 | 70 | 九龍灣廠 | 61 mins | 5 |
| 133 | 63 | 九龍灣廠 | 61 mins | 3 |
| 134 | 31 | 屯門廠 | 61 mins | 1 |
| 135 | 68 | 荔枝角廠 | 61 mins | 2 |
| 136 | 60 | 九龍灣廠 | 61 mins | 1 |
| 137 | 20 | 九龍灣廠 | 61 mins | 2 |
| 138 | 53 | 沙田廠 | 61 mins | 1 |
| 139 | 60 | 九龍灣廠 | 61 mins | 1 |
| 140 | 46 | 九龍灣廠 | 61 mins | 9 |
| 141 | 68 | 九龍灣廠 | 61 mins | 2 |

| Sudden Acceleration (accumulated more than 60 mins) | | | | 6.2.18 - 12.2.18 (both dates inclusive) |
|---|--------------|-------|--|---|
| No. | Employee No. | Depot | Sudden Acceleration accumulated (Acceleration > 4kph/s) | No. of appearance since 28.3.2017 |
| 142 | 61 | 荔枝角廠 | 61 mins | 2 |
| 143 | 54 | 屯門廠 | 61 mins | 4 |
| 144 | 61 | 荔枝角廠 | 60 mins | 2 |
| 145 | 10 | 荔枝角廠 | 60 mins | 1 |
| 146 | 76 | 九龍灣廠 | 60 mins | 5 |
| 147 | 61 | 荔枝角廠 | 60 mins | 1 |
| 148 | 61 | 荔枝角廠 | 60 mins | 2 |
| 149 | 66 | 荔枝角廠 | 60 mins | 4 |
| 150 | 68 | 荔枝角廠 | 60 mins | 3 |
| 151 | 53 | 沙田廠 | 60 mins | 4 |
| 152 | 73 | 沙田廠 | 60 mins | 1 |
| 153 | 76 | 荔枝角廠 | 60 mins | 2 |
| 154 | 77 | 九龍灣廠 | 60 mins | 1 |
| 155 | 77 | 荔枝角廠 | 60 mins | 8 |
| 156 | 63 | 沙田廠 | 60 mins | 1 |
| 157 | 73 | 荔枝角廠 | 60 mins | 1 |
| 158 | 60 | 荔枝角廠 | 60 mins | 5 |
| 159 | 61 | 沙田廠 | 60 mins | 1 |
| 160 | 64 | 九龍灣廠 | 60 mins | 1 |
| 161 | 53 | 荔枝角廠 | 60 mins | 1 |

11.2.3

| | | | | |
|----|---------------|-------------------|---------|----|
| 22 | 71[redacted] | Lai Chi Kok Depot | 76 mins | 6 |
| 23 | 61[redacted] | Sha Tin Depot | 76 mins | 5 |
| 24 | 75[redacted] | Lai Chi Kok Depot | 76 mins | 7 |
| 25 | 96[redacted] | Lai Chi Kok Depot | 75 mins | 12 |
| 26 | 72[redacted] | Lai Chi Kok Depot | 75 mins | 15 |
| 27 | 75[redacted] | Lai Chi Kok Depot | 75 mins | 4 |
| 28 | 62[redacted] | Kowloon Bay Depot | 75 mins | 8 |
| 29 | 69[redacted] | Lai Chi Kok Depot | 75 mins | 1 |
| 30 | 60[redacted] | Tuen Mun Depot | 74 mins | 8 |
| 31 | 66[redacted] | Kowloon Bay Depot | 74 mins | 4 |
| 32 | 78[redacted] | Kowloon Bay Depot | 74 mins | 4 |
| 33 | 62[redacted] | Lai Chi Kok Depot | 74 mins | 2 |
| 34 | 770[redacted] | Lai Chi Kok Depot | 73 mins | 1 |
| 35 | 71[redacted] | Tuen Mun Depot | 73 mins | 5 |
| 36 | 73[redacted] | Lai Chi Kok Depot | 73 mins | 9 |
| 37 | 85[redacted] | Kowloon Bay Depot | 73 mins | 2 |
| 38 | 75[redacted] | Sha Tin Depot | 73 mins | 1 |
| 39 | 72[redacted] | Sha Tin Depot | 73 mins | 6 |
| 40 | 71[redacted] | Lai Chi Kok Depot | 72 mins | 3 |
| 41 | 69[redacted] | Lai Chi Kok Depot | 72 mins | 1 |
| 42 | 65[redacted] | Kowloon Bay Depot | 72 mins | 2 |
| 43 | 568[redacted] | Kowloon Bay Depot | 71 mins | 2 |
| 44 | 72[redacted] | Lai Chi Kok Depot | 71 mins | 9 |
| 45 | 77[redacted] | Lai Chi Kok Depot | 71 mins | 4 |
| 46 | 60[redacted] | Kowloon Bay Depot | 71 mins | 1 |
| 47 | 44[redacted] | Kowloon Bay Depot | 70 mins | 1 |
| 48 | 60[redacted] | Lai Chi Kok Depot | 70 mins | 3 |
| 49 | 50[redacted] | Kowloon Bay | 70 mins | 1 |

11.2.3

| | | Depot | | |
|----|---------------|-------------------|---------|----|
| 50 | 63[redacted] | Kowloon Bay Depot | 70 mins | 2 |
| 51 | 75[redacted] | Kowloon Bay Depot | 70 mins | 3 |
| 52 | 73[redacted] | Lai Chi Kok Depot | 69 mins | 7 |
| 53 | 62[redacted] | Lai Chi Kok Depot | 69 mins | 2 |
| 54 | 61[redacted] | Lai Chi Kok Depot | 69 mins | 2 |
| 55 | 71[redacted] | Kowloon Bay Depot | 69 mins | 1 |
| 56 | 48[redacted] | Kowloon Bay Depot | 69 mins | 3 |
| 57 | 32[redacted] | Sha Tin Depot | 69 mins | 1 |
| 58 | 60[redacted] | Tuen Mun Depot | 68 mins | 3 |
| 59 | 71[redacted] | Lai Chi Kok Depot | 68 mins | 2 |
| 60 | 63[redacted] | Kowloon Bay Depot | 68 mins | 7 |
| 61 | 69[redacted] | Lai Chi Kok Depot | 68 mins | 2 |
| 62 | 76[redacted] | Sha Tin Depot | 68 mins | 8 |
| 63 | 61[redacted] | Lai Chi Kok Depot | 68 mins | 6 |
| 64 | 63[redacted] | Lai Chi Kok Depot | 68 mins | 3 |
| 65 | 68[redacted] | Lai Chi Kok Depot | 68 mins | 17 |
| 66 | 71[redacted] | Kowloon Bay Depot | 67 mins | 1 |
| 67 | 72[redacted] | Lai Chi Kok Depot | 67 mins | 1 |
| 68 | 75[redacted] | Sha Tin Depot | 67 mins | 2 |
| 69 | 69[redacted] | Sha Tin Depot | 67 mins | 3 |
| 70 | 50[redacted] | Kowloon Bay Depot | 67 mins | 3 |
| 71 | 78[redacted] | Kowloon Bay Depot | 67 mins | 1 |
| 72 | 560[redacted] | Kowloon Bay Depot | 67 mins | 1 |
| 73 | 68[redacted] | Kowloon Bay Depot | 67 mins | 7 |
| 74 | 77[redacted] | Lai Chi Kok Depot | 67 mins | 4 |

11.2.3

| | | | | |
|-----|--------------|-------------------|---------|---|
| 75 | 68[redacted] | Lai Chi Kok Depot | 67 mins | 1 |
| 76 | 61[redacted] | Sha Tin Depot | 67 mins | 1 |
| 77 | 78[redacted] | Sha Tin Depot | 66 mins | 3 |
| 78 | 60[redacted] | Sha Tin Depot | 66 mins | 5 |
| 79 | 78[redacted] | Lai Chi Kok Depot | 66 mins | 3 |
| 80 | 64[redacted] | Tuen Mun Depot | 66 mins | 1 |
| 81 | 66[redacted] | Kowloon Bay Depot | 66 mins | 6 |
| 82 | 16[redacted] | Lai Chi Kok Depot | 66 mins | 4 |
| 83 | 63[redacted] | Kowloon Bay Depot | 66 mins | 1 |
| 84 | 62[redacted] | Sha Tin Depot | 66 mins | 3 |
| 85 | 76[redacted] | Sha Tin Depot | 65 mins | 2 |
| 86 | 32[redacted] | Kowloon Bay Depot | 65 mins | 5 |
| 87 | 29[redacted] | Kowloon Bay Depot | 65 mins | 1 |
| 88 | 73[redacted] | Lai Chi Kok Depot | 65 mins | 2 |
| 89 | 71[redacted] | Kowloon Bay Depot | 65 mins | 2 |
| 90 | 75[redacted] | Kowloon Bay Depot | 65 mins | 1 |
| 91 | 63[redacted] | Lai Chi Kok Depot | 65 mins | 2 |
| 92 | 17[redacted] | Kowloon Bay Depot | 65 mins | 5 |
| 93 | 75[redacted] | Tuen Mun Depot | 64 mins | 2 |
| 94 | 60[redacted] | Kowloon Bay Depot | 64 mins | 3 |
| 95 | 73[redacted] | Lai Chi Kok Depot | 64 mins | 2 |
| 96 | 21[redacted] | Tuen Mun Depot | 64 mins | 2 |
| 97 | 35[redacted] | Lai Chi Kok Depot | 64 mins | 3 |
| 98 | 72[redacted] | Lai Chi Kok Depot | 64 mins | 2 |
| 99 | 53[redacted] | Kowloon Bay Depot | 64 mins | 2 |
| 100 | 10[redacted] | Kowloon Bay Depot | 64 mins | 5 |

11.2.3

| | | | | |
|-----|---------------|-------------------|---------|----|
| 101 | 56[redacted]0 | Kowloon Bay Depot | 64 mins | 4 |
| 102 | 68[redacted] | Lai Chi Kok Depot | 64 mins | 3 |
| 103 | 71[redacted] | Kowloon Bay Depot | 64 mins | 2 |
| 104 | 11[redacted] | Lai Chi Kok Depot | 63 mins | 1 |
| 105 | 64[redacted] | Kowloon Bay Depot | 63 mins | 2 |
| 106 | 73[redacted] | Lai Chi Kok Depot | 63 mins | 2 |
| 107 | 78[redacted] | Sha Tin Depot | 63 mins | 2 |
| 108 | 62[redacted] | Sha Tin Depot | 63 mins | 10 |
| 109 | 85[redacted] | Sha Tin Depot | 63 mins | 1 |
| 110 | 55[redacted] | Kowloon Bay Depot | 63 mins | 2 |
| 111 | 60[redacted] | Sha Tin Depot | 63 mins | 5 |
| 112 | 23[redacted] | Sha Tin Depot | 63 mins | 4 |
| 113 | 54[redacted] | Sha Tin Depot | 63 mins | 2 |
| 114 | 66[redacted] | Kowloon Bay Depot | 63 mins | 3 |
| 115 | 73[redacted] | Lai Chi Kok Depot | 63 mins | 6 |
| 116 | 78[redacted] | Kowloon Bay Depot | 63 mins | 2 |
| 117 | 78[redacted] | Lai Chi Kok Depot | 63 mins | 1 |
| 118 | 69[redacted] | Kowloon Bay Depot | 62 mins | 3 |
| 119 | 92[redacted] | Long Win | 62 mins | 1 |
| 120 | 68[redacted] | Lai Chi Kok Depot | 62 mins | 7 |
| 121 | 64[redacted] | Kowloon Bay Depot | 62 mins | 7 |
| 122 | 37[redacted] | Lai Chi Kok Depot | 62 mins | 2 |
| 123 | 81[redacted] | | 62 mins | 1 |
| 124 | 62[redacted] | Lai Chi Kok Depot | 62 mins | 6 |
| 125 | 65[redacted] | Kowloon Bay Depot | 62 mins | 3 |
| 126 | 77[redacted] | Kowloon Bay Depot | 62 mins | 4 |

11.2.3

| | | | | |
|-----|--------------|-------------------|---------|---|
| 127 | 48[redacted] | Kowloon Bay Depot | 62 mins | 2 |
| 128 | 70[redacted] | Lai Chi Kok Depot | 62 mins | 1 |
| 129 | 48[redacted] | Sha Tin Depot | 61 mins | 1 |
| 130 | 34[redacted] | Sha Tin Depot | 61 mins | 2 |
| 131 | 54[redacted] | Lai Chi Kok Depot | 61 mins | 1 |
| 132 | 70[redacted] | Kowloon Bay Depot | 61 mins | 5 |
| 133 | 63[redacted] | Kowloon Bay Depot | 61 mins | 3 |
| 134 | 31[redacted] | Tuen Mun Depot | 61 mins | 1 |
| 135 | 68[redacted] | Lai Chi Kok Depot | 61 mins | 2 |
| 136 | 60[redacted] | Kowloon Bay Depot | 61 mins | 1 |
| 137 | 20[redacted] | Kowloon Bay Depot | 61 mins | 2 |
| 138 | 53[redacted] | Sha Tin Depot | 61 mins | 1 |
| 139 | 60[redacted] | Kowloon Bay Depot | 61 mins | 1 |
| 140 | 46[redacted] | Kowloon Bay Depot | 61 mins | 9 |
| 141 | 68[redacted] | Kowloon Bay Depot | 61 mins | 2 |
| 142 | 61[redacted] | Lai Chi Kok Depot | 61 mins | 2 |
| 143 | 54[redacted] | Tuen Mun Depot | 61 mins | 4 |
| 144 | 61[redacted] | Lai Chi Kok Depot | 60 mins | 2 |
| 145 | 10[redacted] | Lai Chi Kok Depot | 60 mins | 1 |
| 146 | 76[redacted] | Kowloon Bay Depot | 60 mins | 5 |
| 147 | 61[redacted] | Lai Chi Kok Depot | 60 mins | 1 |
| 148 | 61[redacted] | Lai Chi Kok Depot | 60 mins | 2 |
| 149 | 66[redacted] | Lai Chi Kok Depot | 60 mins | 4 |
| 150 | 68[redacted] | Lai Chi Kok Depot | 60 mins | 3 |
| 151 | 53[redacted] | Sha Tin Depot | 60 mins | 4 |
| 152 | 73[redacted] | Sha Tin Depot | 60 mins | 1 |
| 153 | 76[redacted] | Lai Chi Kok Depot | 60 mins | 2 |

This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.

本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。

11.2.3

| | | | | |
|-----|--------------|-------------------|---------|---|
| 154 | 77[redacted] | Kowloon Bay Depot | 60 mins | 1 |
| 155 | 77[redacted] | Lai Chi Kok Depot | 60 mins | 8 |
| 156 | 63[redacted] | Sha Tin Depot | 60 mins | 1 |
| 157 | 73[redacted] | Lai Chi Kok Depot | 60 mins | 1 |
| 158 | 60[redacted] | Lai Chi Kok Depot | 60 mins | 5 |
| 159 | 61[redacted] | Sha Tin Depot | 60 mins | 1 |
| 160 | 64[redacted] | Kowloon Bay Depot | 60 mins | 1 |
| 161 | 53[redacted] | Lai Chi Kok Depot | 60 mins | 1 |

| Harsh Brake (accumulated more than 4 mins) | | | | 6.2.18 - 12.2.18 (both dates inclusive) | |
|--|--------------|-------|--|---|--|
| No. | Employee No. | Depot | Harsh Brake accumulated (Deceleration > 8kph/s) | No. of appearance since 28.3.2017 | |
| 1 | 68 | 屯門廠 | 9 mins | 11 | |
| 2 | 78 | 沙田廠 | 8 mins | 21 | |
| 3 | 61 | 荔枝角廠 | 8 mins | 16 | |
| 4 | 77 | 沙田廠 | 8 mins | 28 | |
| 5 | 10 | 九龍灣廠 | 8 mins | 29 | |
| 6 | 81 | 九龍灣廠 | 8 mins | 7 | |
| 7 | 75 | 屯門廠 | 7 mins | 3 | |
| 8 | 49 | 荔枝角廠 | 7 mins | 1 | |
| 9 | 63 | 九龍灣廠 | 7 mins | 13 | |
| 10 | 92 | 龍運 | 7 mins | 5 | |
| 11 | 722 | 九龍灣廠 | 6 mins | 12 | |
| 12 | 60 | 九龍灣廠 | 6 mins | 10 | |
| 13 | 11 | 荔枝角廠 | 6 mins | 19 | |
| 14 | 62 | 沙田廠 | 6 mins | 22 | |
| 15 | 61 | 九龍灣廠 | 6 mins | 8 | |
| 16 | 33 | 荔枝角廠 | 6 mins | 6 | |
| 17 | 66 | 荔枝角廠 | 6 mins | 10 | |
| 18 | 60 | 沙田廠 | 6 mins | 15 | |
| 19 | 78 | 荔枝角廠 | 6 mins | 7 | |
| 20 | 62 | 荔枝角廠 | 6 mins | 16 | |
| 21 | 65 | 九龍灣廠 | 6 mins | 16 | |
| 22 | 73 | 沙田廠 | 6 mins | 9 | |
| 23 | 73 | 荔枝角廠 | 6 mins | 4 | |
| 24 | 77 | 沙田廠 | 6 mins | 2 | |
| 25 | 45 | 荔枝角廠 | 6 mins | 10 | |
| 26 | 56 | 荔枝角廠 | 6 mins | 4 | |
| 27 | 44 | 荔枝角廠 | 6 mins | 2 | |
| 28 | 14 | 九龍灣廠 | 5 mins | 14 | |
| 29 | 69 | 荔枝角廠 | 5 mins | 29 | |
| 30 | 60 | 屯門廠 | 5 mins | 14 | |
| 31 | 60 | 屯門廠 | 5 mins | 22 | |
| 32 | 60 | 沙田廠 | 5 mins | 13 | |
| 33 | 48 | 沙田廠 | 5 mins | 12 | |
| 34 | 62 | 荔枝角廠 | 5 mins | 11 | |
| 35 | 46 | 沙田廠 | 5 mins | 11 | |
| 36 | 74 | 九龍灣廠 | 5 mins | 1 | |
| 37 | 69 | 九龍灣廠 | 5 mins | 1 | |
| 38 | 60 | 沙田廠 | 5 mins | 16 | |
| 39 | 73 | 荔枝角廠 | 5 mins | 23 | |
| 40 | 76 | 九龍灣廠 | 5 mins | 9 | |
| 41 | 78 | 沙田廠 | 5 mins | 4 | |
| 42 | 77 | 沙田廠 | 5 mins | 9 | |
| 43 | 73 | 九龍灣廠 | 5 mins | 15 | |
| 44 | 54 | 荔枝角廠 | 5 mins | 1 | |
| 45 | 54 | 屯門廠 | 5 mins | 1 | |
| 46 | 73 | 沙田廠 | 5 mins | 1 | |
| 47 | 77 | 九龍灣廠 | 5 mins | 6 | |

| Harsh Brake (accumulated more than 4 mins) | | | | 6.2.18 - 12.2.18 (both dates inclusive) | |
|--|--------------|-------|--|---|--|
| No. | Employee No. | Depot | Harsh Brake accumulated (Deceleration > 8kph/s) | No. of appearance since 28.3.2017 | |
| 48 | 61 | 荔枝角廠 | 5 mins | 26 | |
| 49 | 62 | 九龍灣廠 | 5 mins | 19 | |
| 50 | 72 | 沙田廠 | 5 mins | 21 | |
| 51 | 69 | 九龍灣廠 | 5 mins | 2 | |
| 52 | 61 | 九龍灣廠 | 5 mins | 5 | |
| 53 | 76 | 沙田廠 | 5 mins | 13 | |
| 54 | 99 | 龍運 | 5 mins | 3 | |
| 55 | 69 | 九龍灣廠 | 5 mins | 6 | |
| 56 | 70 | 荔枝角廠 | 5 mins | 2 | |
| 57 | 10 | 沙田廠 | 5 mins | 30 | |
| 58 | 90 | 龍運 | 5 mins | 20 | |
| 59 | 74 | 沙田廠 | 4 mins | 8 | |
| 60 | 60 | 沙田廠 | 4 mins | 2 | |
| 61 | 78 | 荔枝角廠 | 4 mins | 14 | |
| 62 | 76 | 沙田廠 | 4 mins | 12 | |
| 63 | 73 | 荔枝角廠 | 4 mins | 5 | |
| 64 | 64 | 九龍灣廠 | 4 mins | 1 | |
| 65 | 73 | 荔枝角廠 | 4 mins | 18 | |
| 66 | 69 | 九龍灣廠 | 4 mins | 6 | |
| 67 | 34 | 沙田廠 | 4 mins | 2 | |
| 68 | 54 | 荔枝角廠 | 4 mins | 7 | |
| 69 | 61 | 荔枝角廠 | 4 mins | 3 | |
| 70 | 68 | 九龍灣廠 | 4 mins | 21 | |
| 71 | 60 | 荔枝角廠 | 4 mins | 33 | |
| 72 | 71 | 九龍灣廠 | 4 mins | 2 | |
| 73 | 57 | 屯門廠 | 4 mins | 2 | |
| 74 | 77 | 沙田廠 | 4 mins | 3 | |
| 75 | 46 | 九龍灣廠 | 4 mins | 15 | |
| 76 | 10 | 荔枝角廠 | 4 mins | 3 | |
| 77 | 73 | 九龍灣廠 | 4 mins | 5 | |
| 78 | 64 | 九龍灣廠 | 4 mins | 13 | |
| 79 | 72 | 九龍灣廠 | 4 mins | 6 | |
| 80 | 64 | 九龍灣廠 | 4 mins | 6 | |
| 81 | 77 | 荔枝角廠 | 4 mins | 3 | |
| 82 | 62 | 九龍灣廠 | 4 mins | 10 | |
| 83 | 17 | 九龍灣廠 | 4 mins | 1 | |
| 84 | 52 | 九龍灣廠 | 4 mins | 3 | |
| 85 | 66 | 荔枝角廠 | 4 mins | 8 | |
| 86 | 75 | 九龍灣廠 | 4 mins | 11 | |
| 87 | 78 | 屯門廠 | 4 mins | 1 | |
| 88 | 24 | 沙田廠 | 4 mins | 2 | |
| 89 | 76 | 九龍灣廠 | 4 mins | 23 | |
| 90 | 64 | 屯門廠 | 4 mins | 2 | |
| 91 | 24 | 荔枝角廠 | 4 mins | 1 | |
| 92 | 54 | 九龍灣廠 | 4 mins | 8 | |
| 93 | 65 | 荔枝角廠 | 4 mins | 9 | |
| 94 | 60 | 荔枝角廠 | 4 mins | 6 | |

| Harsh Brake (accumulated more than 4 mins) | | | | 6.2.18 - 12.2.18 (both dates inclusive) | |
|--|--------------|-------|--|---|--|
| No. | Employee No. | Depot | Harsh Brake accumulated (Deceleration > 8kph/s) | No. of appearance since 28.3.2017 | |
| 95 | 66 | 屯門廠 | 4 mins | 2 | |
| 96 | 63 | 屯門廠 | 4 mins | 3 | |
| 97 | 75 | 九龍灣廠 | 4 mins | 1 | |
| 98 | 60 | 沙田廠 | 4 mins | 11 | |
| 99 | 72 | 九龍灣廠 | 4 mins | 1 | |
| 100 | 75 | 沙田廠 | 4 mins | 20 | |
| 101 | 91 | 龍運 | 4 mins | 7 | |
| 102 | 65 | 荔枝角廠 | 4 mins | 14 | |
| 103 | 63 | 九龍灣廠 | 4 mins | 6 | |
| 104 | 55 | 荔枝角廠 | 4 mins | 11 | |
| 105 | 75 | 九龍灣廠 | 4 mins | 8 | |
| 106 | 68 | 荔枝角廠 | 4 mins | 2 | |
| 107 | 24 | 九龍灣廠 | 4 mins | 1 | |
| 108 | 73 | 沙田廠 | 4 mins | 6 | |
| 109 | 53 | 沙田廠 | 4 mins | 1 | |
| 110 | 53 | 九龍灣廠 | 4 mins | 5 | |
| 111 | 85 | 沙田廠 | 4 mins | 9 | |
| 112 | 65 | 九龍灣廠 | 4 mins | 2 | |
| 113 | 74 | 荔枝角廠 | 4 mins | 6 | |
| 114 | 40 | 沙田廠 | 4 mins | 3 | |
| 115 | 11 | 沙田廠 | 4 mins | 5 | |
| 116 | 64 | 沙田廠 | 4 mins | 23 | |
| 117 | 72 | 沙田廠 | 4 mins | 8 | |
| 118 | 63 | 屯門廠 | 4 mins | 13 | |
| 119 | 92 | 龍運 | 4 mins | 12 | |

BC Performance from 6 Feb 2018 to 12 Feb 2018: Harsh Brake

| Harsh Brake (accumulated more than 4 mins) 6.2.18-12.2.18 (both dates inclusive) | | | | |
|---|---------------|-------------------|---|-----------------------------------|
| No. | Employee No. | Depot | Harsh Brake accumulated (Deceleration > 8kph) | No. of appearance since 28.3.2017 |
| 1 | 68[redacted] | Tuen Mun Depot | 9 mins | 11 |
| 2 | 78[redacted] | Sha Tin Depot | 8 mins | 21 |
| 3 | 61[redacted] | Lai Chi Kok Depot | 8 mins | 16 |
| 4 | 77[redacted] | Sha Tin Depot | 8 mins | 28 |
| 5 | 10[redacted] | Kowloon Bay Depot | 8 mins | 29 |
| 6 | 81[redacted] | Kowloon Bay Depot | 8 mins | 7 |
| 7 | 75[redacted] | Tuen Mun Depot | 7 mins | 3 |
| 8 | 49[redacted] | Lai Chi Kok Depot | 7 mins | 1 |
| 9 | 63[redacted] | Kowloon Bay Depot | 7 mins | 13 |
| 10 | 92[redacted] | Long Win | 7 mins | 5 |
| 11 | 722[redacted] | Kowloon Bay Depot | 6 mins | 12 |
| 12 | 60[redacted] | Kowloon Bay Depot | 6 mins | 10 |
| 13 | 11[redacted] | Lai Chi Kok Depot | 6 mins | 19 |
| 14 | 62[redacted] | Sha Tin Depot | 6 mins | 22 |
| 15 | 61[redacted] | Kowloon Bay Depot | 6 mins | 8 |
| 16 | 33[redacted] | Lai Chi Kok Depot | 6 mins | 6 |
| 17 | 66[redacted] | Lai Chi Kok Depot | 6 mins | 10 |
| 18 | 60[redacted] | Sha Tin Depot | 6 mins | 15 |
| 19 | 78[redacted] | Lai Chi Kok Depot | 6 mins | 7 |
| 20 | 62[redacted] | Lai Chi Kok Depot | 6 mins | 16 |
| 21 | 65[redacted] | Kowloon Bay | 6 mins | 16 |

11.2.4

| | | Depot | | |
|----|---------------|-------------------|--------|----|
| 22 | 73[redacted] | Sha Tin Depot | 6 mins | 9 |
| 23 | 73[redacted] | Lai Chi Kok Depot | 6 mins | 4 |
| 24 | 77[redacted] | Sha Tin Depot | 6 mins | 2 |
| 25 | 45[redacted] | Lai Chi Kok Depot | 6 mins | 10 |
| 26 | 56[redacted]1 | Lai Chi Kok Depot | 6 mins | 4 |
| 27 | 44[redacted] | Lai Chi Kok Depot | 6 mins | 2 |
| 28 | 14[redacted] | Kowloon Bay Depot | 5 mins | 14 |
| 29 | 69[redacted] | Lai Chi Kok Depot | 5 mins | 29 |
| 30 | 60[redacted] | Tuen Mun Depot | 5 mins | 14 |
| 31 | 60[redacted] | Tuen Mun Depot | 5 mins | 22 |
| 32 | 60[redacted] | Sha Tin Depot | 5 mins | 13 |
| 33 | 48[redacted] | Sha Tin Depot | 5 mins | 12 |
| 34 | 62[redacted] | Lai Chi Kok Depot | 5 mins | 11 |
| 35 | 46[redacted] | Sha Tin Depot | 5 mins | 11 |
| 36 | 74[redacted] | Kowloon Bay Depot | 5 mins | 1 |
| 37 | 69[redacted] | Kowloon Bay Depot | 5 mins | 1 |
| 38 | 60[redacted] | Sha Tin Depot | 5 mins | 16 |
| 39 | 73[redacted] | Lai Chi Kok Depot | 5 mins | 23 |
| 40 | 76[redacted] | Kowloon Bay Depot | 5 mins | 9 |
| 41 | 78[redacted] | Sha Tin Depot | 5 mins | 4 |
| 42 | 77[redacted] | Sha Tin Depot | 5 mins | 9 |
| 43 | 73[redacted] | Kowloon Bay Depot | 5 mins | 15 |
| 44 | 54[redacted] | Lai Chi Kok Depot | 5 mins | 1 |
| 45 | 54[redacted] | Tuen Mun Depot | 5 mins | 1 |
| 46 | 73[redacted] | Sha Tin Depot | 5 mins | 1 |
| 47 | 77[redacted] | Kowloon Bay Depot | 5 mins | 6 |
| 48 | 61[redacted] | Lai Chi Kok Depot | 5 mins | 26 |
| 49 | 62[redacted] | Kowloon Bay Depot | 5 mins | 19 |

11.2.4

| | | | | |
|----|--------------|-------------------|--------|----|
| 50 | 72[redacted] | Sha Tin Depot | 5 mins | 21 |
| 51 | 69[redacted] | Kowloon Bay Depot | 5 mins | 2 |
| 52 | 61[redacted] | Kowloon Bay Depot | 5 mins | 5 |
| 53 | 76[redacted] | Sha Tin Depot | 5 mins | 13 |
| 54 | 99[redacted] | Long Win | 5 mins | 3 |
| 55 | 69[redacted] | Kowloon Bay Depot | 5 mins | 6 |
| 56 | 70[redacted] | Lai Chi Kok Depot | 5 mins | 2 |
| 57 | 10[redacted] | Sha Tin Depot | 5 mins | 30 |
| 58 | 90[redacted] | Long Win | 5 mins | 20 |
| 59 | 74[redacted] | Sha Tin Depot | 4 mins | 8 |
| 60 | 60[redacted] | Sha Tin Depot | 4 mins | 2 |
| 61 | 78[redacted] | Lai Chi Kok Depot | 4 mins | 14 |
| 62 | 76[redacted] | Sha Tin Depot | 4 mins | 12 |
| 63 | 73[redacted] | Lai Chi Kok Depot | 4 mins | 5 |
| 64 | 64[redacted] | Kowloon Bay Depot | 4 mins | 1 |
| 65 | 73[redacted] | Lai Chi Kok Depot | 4 mins | 18 |
| 66 | 69[redacted] | Kowloon Bay Depot | 4 mins | 6 |
| 67 | 34[redacted] | Sha Tin Depot | 4 mins | 2 |
| 68 | 54[redacted] | Lai Chi Kok Depot | 4 mins | 7 |
| 69 | 61[redacted] | Lai Chi Kok Depot | 4 mins | 3 |
| 70 | 68[redacted] | Kowloon Bay Depot | 4 mins | 21 |
| 71 | 60[redacted] | Lai Chi Kok Depot | 4 mins | 33 |
| 72 | 71[redacted] | Kowloon Bay Depot | 4 mins | 2 |
| 73 | 57[redacted] | Tuen Mun Depot | 4 mins | 2 |
| 74 | 77[redacted] | Sha Tin Depot | 4 mins | 3 |
| 75 | 46[redacted] | Kowloon Bay Depot | 4 mins | 15 |
| 76 | 10[redacted] | Lai Chi Kok Depot | 4 mins | 3 |
| 77 | 73[redacted] | Kowloon Bay | 4 mins | 5 |

11.2.4

| | | Depot | | |
|-----|--------------|-------------------|--------|----|
| 78 | 64[redacted] | Kowloon Bay Depot | 4 mins | 13 |
| 79 | 72[redacted] | Kowloon Bay Depot | 4 mins | 6 |
| 80 | 64[redacted] | Kowloon Bay Depot | 4 mins | 6 |
| 81 | [redacted]77 | Lai Chi Kok Depot | 4 mins | 3 |
| 82 | 62[redacted] | Kowloon Bay Depot | 4 mins | 10 |
| 83 | 17[redacted] | Kowloon Bay Depot | 4 mins | 1 |
| 84 | 52[redacted] | Kowloon Bay Depot | 4 mins | 3 |
| 85 | 66[redacted] | Lai Chi Kok Depot | 4 mins | 8 |
| 86 | 75[redacted] | Kowloon Bay Depot | 4 mins | 11 |
| 87 | 78[redacted] | Tuen Mun Depot | 4 mins | 1 |
| 88 | 24[redacted] | Sha Tin Depot | 4 mins | 2 |
| 89 | 76[redacted] | Kowloon Bay Depot | 4 mins | 12 |
| 90 | 64[redacted] | Tuen Mun Depot | 4 mins | 2 |
| 91 | 24[redacted] | Lai Chi Kok Depot | 4 mins | 1 |
| 92 | 54[redacted] | Kowloon Bay Depot | 4 mins | 8 |
| 93 | 65[redacted] | Lai Chi Kok Depot | 4 mins | 9 |
| 94 | 60[redacted] | Lai Chi Kok Depot | 4 mins | 6 |
| 95 | 66[redacted] | Tuen Mun Depot | 4 mins | 2 |
| 96 | 63[redacted] | Tuen Mun Depot | 4 mins | 3 |
| 97 | 75[redacted] | Kowloon Bay Depot | 4 mins | 1 |
| 98 | 60[redacted] | Sha Tin Depot | 4 mins | 11 |
| 99 | 72[redacted] | Kowloon Bay Depot | 4 mins | 1 |
| 100 | 75[redacted] | Sha Tin Depot | 4 mins | 20 |
| 101 | 91[redacted] | Long Win | 4 mins | 7 |

11.2.4

| | | | | |
|-----|--------------|-------------------|--------|----|
| 102 | 65[redacted] | Lai Chi Kok Depot | 4 mins | 14 |
| 103 | 63[redacted] | Kowloon Bay Depot | 4 mins | 6 |
| 104 | 55[redacted] | Lai Chi Kok Depot | 4 mins | 11 |
| 105 | 75[redacted] | Kowloon Bay Depot | 4 mins | 8 |
| 106 | 68[redacted] | Lai Chi Kok Depot | 4 mins | 2 |
| 107 | 24[redacted] | Kowloon Bay Depot | 4 mins | 1 |
| 108 | 73[redacted] | Sha Tin Depot | 4 mins | 6 |
| 109 | 53[redacted] | Sha Tin Depot | 4 mins | 1 |
| 110 | 53[redacted] | Kowloon Bay Depot | 4 mins | 5 |
| 111 | 85[redacted] | Sha Tin Depot | 4 mins | 9 |
| 112 | 65[redacted] | Kowloon Bay Depot | 4 mins | 2 |
| 113 | 74[redacted] | Lai Chi Kok Depot | 4 mins | 6 |
| 114 | 40[redacted] | Sha Tin Depot | 4 mins | 3 |
| 115 | 11[redacted] | Sha Tin Depot | 4 mins | 5 |
| 116 | 64[redacted] | Sha Tin Depot | 4 mins | 23 |
| 117 | 72[redacted] | Sha Tin Depot | 4 mins | 8 |
| 118 | 63[redacted] | Tuen Mun Depot | 4 mins | 13 |
| 119 | 92[redacted] | Long Win | 4 mins | 12 |

12.1 Summary of notes for meetings between the Transport Department and all bus operators and bus manufacturers

| Date | Description | Summary | Reference |
|---------------|---|--|--------------------|
| 13 March 2018 | Notes of 1 st Meeting held on 13 March 2018 of the Working Group on Enhancement of Safety of Franchised Buses | Discussed proposed scope of work, training arrangements, installation of seat belts and safety devices etc. | Document no. 12.4 |
| 19 April 2018 | Notes of 1 st Meeting held on 19 April 2018 of the Technical Meeting on Training Arrangements for Bus Captains | Discussed training system structure, modules and weighing, duration of induction course etc. | Document no. 12.5 |
| 23 April 2018 | Notes of 2 nd Meeting held on 23 April 2018 of the Working Group on Enhancement of Safety of Franchised Buses | Discussed training for bus captains, installation of seat belts and safety devices and preparation of report | Document no. 12.6 |
| 21 June 2018 | Notes of 3 rd Meeting held on 21 June 2018 of the Working Group on Enhancement of Safety of Franchised Buses | Discussed training for bus captains, installation of seat belts and safety devices, ISO 39001. | Document no. 12.7 |
| 4 June 2018 | Draft Notes of 2 nd Meeting held on 4 June 2018 of the Technical Meeting on Training Arrangements for Bus Captains | Discussed the draft Guidelines on Training for Bus Captains | Document no. 12.8 |
| 27 March 2018 | Notes of Meeting of the 1 st Sub-Working Group on On-Vehicle Safety Devices for Franchised Buses on 27 March 2018 | Discussed various hardware and technologies of on-vehicle safety devices | Document no. 12.9 |
| 12 June 2018 | Draft Notes of the 2 nd Meeting of the Sub-Working Group on On-Vehicle Safety Devices for Franchised Buses on 12 June 2018 | Discussed various hardware and technologies of on-vehicle safety devices | Document no. 12.10 |
| 27 June 2018 | Draft Notes of the 3 rd Meeting of the Sub-Working Group on In-Vehicle Safety Devices for Franchised Buses on 27 June 2018 | Discussed various hardware and technologies of on-vehicle safety devices | Document no. 12.11 |

12.2 Summary of correspondences between KMB and the Transport Department

| Date | Description | Summary | Reference |
|---------------|---|---|--------------------|
| 15 March 2018 | Letter from KMB to Transport Department | Urge to include proposed subjects as part of the scope of the Working Group | Document no. 12.12 |
| 26 March 2018 | Letter from Transport Department to KMB | Suggest to handle proposed subject separately outside the Working Group | Document no. 12.13 |
| 11 July 2018 | Letter from KMB to Transport Department | Urge to include proposed subjects as part of the scope of the Working Group | Document no. 12.14 |

12.3 Meeting Schedule with the Transport Department

Working Group on Enhancement of Safety of Franchised Buses

| Dates | Description |
|---------------|-------------------------|
| 13 March 2018 | 1 st Meeting |
| 23 April 2018 | 2 nd Meeting |
| 21 June 2018 | 3 rd Meeting |

Technical Meeting on Training Arrangements for Bus Captains

| Dates | Description |
|---------------|-------------------------|
| 19 April 2018 | 1 st Meeting |
| 4 June 2018 | 2 nd Meeting |

Sub-Working Group on On-Vehicle Safety Devices for Franchised Buses

| Dates | Description |
|---------------|-------------------------|
| 27 March 2018 | 1 st Meeting |
| 12 June 2018 | 2 nd Meeting |
| 27 June 2018 | 3 rd Meeting |

**Working Group on
Enhancement of Safety of Franchised Buses**

**Notes of 1st Meeting held on 13 March 2018 at 3.00 p.m.
at Room 4110B, 41/F, Immigration Tower, Wan Chai**

Present:

Convener

| | | |
|----|------------------|--|
| TD | Miss Rachel KWAN | Assistant Commissioner for Transport/Special Duties |
|----|------------------|--|

Member - TD

| | | |
|------|------------------|--|
| BRB | Miss Amy TSE | Principal Transport Officer/Bus and Railway 1 |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |
| VSSD | Mr. David TSANG | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standards |
| | Mr. William SHUM | Senior Engineer/Vehicle Regulations and Standards |
| | Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| | Mr. Danny CHAN | Engineer/Bus Safety |
| RSSD | Mr. Tony YAU | Chief Engineer/Road Safety and Standards |
| | Mr. Gary WONG | Senior Engineer/Road Safety 2 |

Member – Bus Operators

| | | |
|--------|-----------------------|---|
| KMB/LW | Mr. Godwin SO | General Manager, Corporate Planning & Business Development |
| | Mr. LEUNG Kin Wang | Operations Director |
| | Mr James WONG | Head of Training and Quality Assurance Department |

| | | |
|----------|------------|------------|
| CTB/NWFB | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] |

| | | |
|-----|------------|------------|
| NLB | [REDACTED] | [REDACTED] |
|-----|------------|------------|



Note-taker

TD

Miss Natalie YU

Senior Transport Officer/Railway 6

Action

DISCUSSION

(A) Opening Remarks

1. The Convener welcomed members to the first meeting of the Working Group on Enhancement of Safety of Franchised Buses (“WG”). She briefed members that whilst an Independent Review Committee (“IRC”) led by Hon. Mr Justice Michael Victor Lunn had been set up to review safety of bus operations after the traffic accident involving a bus on Tai Po Road on 10 February 2018, the purpose of the WG meeting was to review and study measures with a view to further enhancing bus safety. Technical meetings (“TMs”) would also be held with members and/or with relevant professionals to discuss on individual topic. A report on the outcome and recommendations of the review is expected to be submitted to the Commissioner for Transport in three months’ time.

(B) Confirmation of Membership and Scope of Works

2. The Members had no objection to the Membership and the Scope of Work of the WG (*Annex*).

3. As regards the proposed scope of work, KMB/LW further suggested including four other aspects viz. assault on bus captain, illegal parking at bus stops, traffic congestion aggravating bus captains’ driving fatigue and pressure as well as bus stop arrangements in the scope of work.

4. TD noted that threat of assault on bus captains would put pressure and stress on bus captains when they were driving. It had already been the Government’s plan to enhance publicity on proper passenger behaviour and serious legal consequence of assaults on or disturbance to bus captains. On the illegal parking at bus stops and the individual bus stop arrangement, TD opined that these would be

Action

followed up more effectively by TD's Regional Offices on a case by case basis. In respect of traffic congestion, TD advised that a study had been conducted with a number of measures proposed to the Transport Advisory Council for alleviating traffic congestion. The measures would be implemented in due course subject to consultation and legislative amendments. Besides, the impact (e.g. pressure, fatigue) on the bus drivers arising from traffic congestion could better be mitigated by operational adjustments by the franchised bus operators. Given the 3-month limited time span of the WG, it was agreed at the meeting that the WG should focus on the proposed scope of work set out at Annex, including training arrangements for bus captains, installation of seat belts on all seats, and installation of on-vehicle safety device whilst the issues brought up by KMB/LW should be handled outside the WG.

(C) Training Arrangements for Bus Captains

(a) *New recruits*

5. [REDACTED]

[REDACTED]

[REDACTED] KMB/LW added that they also carried out road test assessment to ensure the applicants' driving competence even though the applicants had no conviction record in the past [REDACTED]

6. [REDACTED]

(b) *In-service bus captains*

7. It was noted that all bus operators would provide classroom

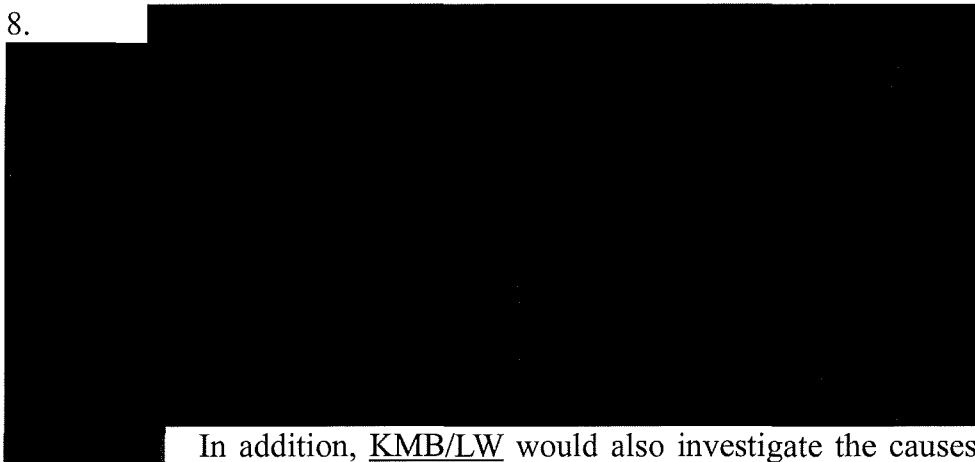
Action

refresher course to in-service bus captains at least once in three years.



(c) Driving behavior monitoring to in-service bus captains

8.



In addition, KMB/LW would also investigate the causes of speeding and consider providing appropriate training to the captains, subject to the internal investigation results. It was noted that the disciplinary actions and follow-up actions taken to the bus captains would be varied, depending on the nature and the persistency of the driving malpractice committed by the captains. TD requested all bus operators to provide their companies' guidelines on taking disciplinary actions, by listing the disciplinary actions taken to captains from dismissal to compulsory training on different types of driving malpractices or driving offences committed by the bus captains.

All bus
operators

9. Apart from the use of black box, KMB/LW supplemented that they would conduct on-board monitoring on bus captains' driving performance.



10. In addition to the normal classroom training, TD suggested all bus operators to consider making use of putting up notice at

All bus

conspicuous locations and video uploaded onto companies' website to disseminate driving safety messages to the bus captains.

Action

operators

11.

[REDACTED]
[REDACTED]
[REDACTED] KMB/LW considered that it should not be the captains' sole responsibility to the high accident rate, and, in some cases, behavior of other road users and/or the road design might also be the contributing factors.

[REDACTED]
[REDACTED] In response to the above, TD replied that it would be important for the bus operators to carry out an analysis on the correlation of a number of aspects, including captains' age, year of service and other external factors etc., with the accident rate. With the results of the analysis, the bus operators could strengthen the training to the captains purposively.

12. TD reminded the bus operators to submit training information and requested the bus operators to -

All bus operators

- i) review the current training arrangement, including (a) the scope of content that emotion management, complaint handling, alert driving, and safety tips during on-the-road training/ route training etc. were included, (b) frequency and duration, and (c) form of training and distribution channels;
- ii) carry out analysis on the correlation between the accident rate and bus captains' ages as well as the number of training hours received by bus captains;
- iii) compare the in-house training with the training practice of bus captains in other places, such as Singapore and London; and
- iv) provide suggestions to enhance training arrangements, with the ultimate objective to prevent accident happening in the future.

Action**(D) Installation of seat belts**

13. At present, all exposed seats on franchised buses have been installed with seat belts. Taking the technical feasibility into the account, TD proposed to install seat belts on all seats for new buses and retrofit seat belts on all seats on the existing buses.

14. After discussion, all franchised bus operators agreed that installation of seat belts on new buses was feasible if specified when making the procurement. KMB/LW supplemented that there would be difficulties to add the requirement for seat belt installation if the new buses had already been under manufacturing.

15. [REDACTED]

16. [REDACTED]

TD advised that there were requests for a comprehensive review on seat belts installation on bus after the traffic accidents. It had been more than a decade since the last review on the installation of seat belt on buses. The objective of the prevailing discussion should focus on the technical feasibility, cost-effectiveness, applicability and other issues relating to installation of seat belts on all seats other than exposed seats.

17. TD proposed that a TM to be held in the following week with the bus operators and the major bus manufacturers, such as Alexander Dennis, Volvo, Man, Benz and Scania to discuss the subject in depth. The TM would look into i) the existing provision of the buses, ii) the feasibility to install seat belts on new buses, and iii) the feasibility and difficulties to install seat belts on existing operating buses. Further discussions and recommendations would be made based on the study and information gathered.

TD and all
bus
operators

(Post-meeting notes: The TM was held on 27 March with the major bus manufacturers and all franchised bus operators to explore the technical

Action

feasibility of different hardware and technologies of on-vehicle safety devices. Notes of the TM would be prepared separately.)

(E) Installation of on-vehicle safety device

18. TD briefed the members the on-vehicle safety devices outlined in the scope of work, and invited bus operators' views on installation of these devices.

19. [REDACTED]

KMB/LW reported that all buses in their fleets had been equipped with audible alarm and warning sign on dashboard. TD responded that this device would further be discussed in the TM.

20. [REDACTED]

21. [REDACTED]

TD suggested exploring the applicability of the technology on bus routes operating in the New Territories or to/from the Airport in the coming TMs.

TD and all
bus
operators

(See post-meeting note to para. 17.)

22. [REDACTED]

KMB/LW added that face and eye detections were also available as an alternative.


23. After deliberation, it was agreed that the feasibility and applicability of the above technologies and devices would be further investigated in the TM.

(See post-meeting note to para. 17.)

(F) Other proposed measures

24. TD invited members' views on the installation of on-vehicle cameras to enhance bus safety.

25.

 KMB/LW supplemented that over 2 000 buses under their fleet had been equipped with 9 cameras on each bus.

26. In addition to the on-vehicle safety device listed in the scope of work, TD proposed to look into the feasibility and the applicability of geofencing, speed alarm, tilt alarm and heat windscreen in the TM.

(See post-meeting note to para. 17.)

(G) A.O.B.

28. There being no other business, the meeting adjourned at 4.40 p.m..

Action

TD and all
bus
operators

TD and all
bus
operators

**Working Group on
Enhancement of Safety of Franchised Buses**

Scope of Work

After a traffic accident involving a bus of Kowloon Motor Bus Company Limited took place on Tai Po Road on 10 February 2018, a Working Group is proposed to be set up to review and study measures to further enhance bus safety. The scope of the Working Group shall include –

- (1) To review and enhance the training arrangements targeting different types of captains (e.g. new recruits, in-service captains and in-service captains having committed traffic offence or having involved in accident, etc.);
- (2) To examine the technical feasibility, cost-effectiveness, applicability and any other issues relating to installation of seat belts on all seats other than exposed seats;
- (3) To explore the technical feasibility, cost-effectiveness, applicability and any other issues relating to the installation of on-vehicle safety device, including but not limiting to the following –
 - (a) Speed display unit for passengers;
 - (b) Active / passive roll stability control;
 - (c) Electronic stability control;
 - (d) Speed control aided by GPS;
 - (e) Speed limiter to cap maximum speed within 70 km/hour;
 - (f) Collision prevention and lane keeping device; and
 - (g) Monitoring device on captain's condition e.g. dozing, drowsiness.
- (4) Any other proposed measures related to the above 3 areas as considered appropriate.



MembershipConvener

| | | |
|----|------------------|--|
| TD | Miss Rachel Kwan | Assistant Commissioner for Transport/Special Duties |
|----|------------------|--|

Members – TD

| | | |
|------|-----------------|---|
| BRB | Miss Amy Tse | Principal Transport Officer/Bus and Railway 1 |
| | Ms. Amy Lee | Chief Transport Officer/Special Duties |
| VSSD | Mr David Tsang | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standards |
| | Mr William Shum | Senior Engineer/Vehicle Regulations and Standards |
| | Mr Jimmy Yeung | Senior Engineer/Vehicle Safety |
| | Mr Danny Chan | Engineer/Bus Safety |
| RSSD | Mr Tony Yau | Chief Engineer/Road Safety and Standards |
| | Mr Gary Wong | Senior Engineer/Road Safety 2 |

Members – Bus Operators

| | | |
|--------|---|--|
| KMB/LW | Mr Godwin So | General Manager, Corporate Planning & Business Development |
| | Mr Leung Kin Wang | Operations Director |
| | Mr James Wong | Head of Training and Quality Assurance Department |
| CTB/ |  |  |

NWFB

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

NLB

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Note-taker

TD

Miss Natalie Yu

Senior Transport Officer/Railway 6

Technical Meetings

Separate technical meetings will be set up to discuss the measures in more details.

Interval of Meeting

On monthly basis or at more frequent interval if necessary (till completion of the review)

Deliverable

A report on the outcome and recommendations of the review is expected to be submitted to the Commissioner for Transport in 3 months' time.

[Blank Page]

**Working Group on
Enhancement of Safety of Franchised Buses**

**Notes of 1st Meeting held on 13 March 2018 at 3.00 p.m.
at Room 4110B, 41/F, Immigration Tower, Wan Chai**

Present:

Convener

| | | |
|----|------------------|--|
| TD | Miss Rachel KWAN | Assistant Commissioner for Transport/Special Duties |
|----|------------------|--|

Member - TD

| | | |
|------|------------------|--|
| BRB | Miss Amy TSE | Principal Transport Officer/Bus and Railway 1 |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |
| VSSD | Mr. David TSANG | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standards |
| | Mr. William SHUM | Senior Engineer/Vehicle Regulations and Standards |
| | Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| | Mr. Danny CHAN | Engineer/Bus Safety |
| RSSD | Mr. Tony YAU | Chief Engineer/Road Safety and Standards |
| | Mr. Gary WONG | Senior Engineer/Road Safety 2 |

Member – Bus Operators

| | | |
|----------|-----------------------|---|
| KMB/LW | Mr. Godwin SO | General Manager, Corporate Planning & Business Development |
| | Mr. LEUNG Kin Wang | Operations Director |
| | Mr James WONG | Head of Training and Quality Assurance Department |
| CTB/NWFB | Mr William CHUNG | Head of Operations |
| | Mr Paul LI | Head of Engineering |
| | Mr Vincent FUNG | Senior Operations Manager |
| NLB | Mr. Benny CHAN | Deputy General Manager |

| | |
|-------------------|--------------------------------------|
| Mr. Patrick YEUNG | Head of Service and Training |
| Mr. Billy WONG | Assistant Manager, Operation Support |

Note-taker

| | | |
|----|-----------------|------------------------------------|
| TD | Miss Natalie YU | Senior Transport Officer/Railway 6 |
|----|-----------------|------------------------------------|

Action**DISCUSSION****(A) Opening Remarks**

1. The Convener welcomed members to the first meeting of the Working Group on Enhancement of Safety of Franchised Buses (“WG”). She briefed members that whilst an Independent Review Committee (“IRC”) led by Hon. Mr Justice Michael Victor Lunn had been set up to review safety of bus operations after the traffic accident involving a bus on Tai Po Road on 10 February 2018, the purpose of the WG meeting was to review and study measures with a view to further enhancing bus safety. Technical meetings (“TMs”) would also be held with members and/or with relevant professionals to discuss on individual topic. A report on the outcome and recommendations of the review is expected to be submitted to the Commissioner for Transport in three months’ time.

(B) Confirmation of Membership and Scope of Works

2. The Members had no objection to the Membership and the Scope of Work of the WG (*Annex*).

3. As regards the proposed scope of work, KMB/LW further suggested including four other aspects viz. assault on bus captain, illegal parking at bus stops, traffic congestion aggravating bus captains’ driving fatigue and pressure as well as bus stop arrangements in the scope of work.

4. TD noted that threat of assault on bus captains would put pressure and stress on bus captains when they were driving. It had already been the Government’s plan to enhance publicity on proper passenger behaviour and serious legal consequence of assaults on or disturbance to bus captains. On the illegal parking at bus stops and the individual bus stop arrangement, TD opined that these would be

Action

followed up more effectively by TD's Regional Offices on a case by case basis. In respect of traffic congestion, TD advised that a study had been conducted with a number of measures proposed to the Transport Advisory Council for alleviating traffic congestion. The measures would be implemented in due course subject to consultation and legislative amendments. Besides, the impact (e.g. pressure, fatigue) on the bus drivers arising from traffic congestion could better be mitigated by operational adjustments by the franchised bus operators. Given the 3-month limited time span of the WG, it was agreed at the meeting that the WG should focus on the proposed scope of work set out at Annex, including training arrangements for bus captains, installation of seat belts on all seats, and installation of on-vehicle safety device whilst the issues brought up by KMB/LW should be handled outside the WG.

(C) Training Arrangements for Bus Captains**(a) New recruits**

5. CTB/NWFB and KMB/LW advised that conviction records of the applicants would be checked during bus captains' recruitment exercise with applicants' consent. CTB/NWFB pointed out that they would take into consideration the details of the conviction records, such as types of driving offence that the applicant had committed before making an offer to the applicant. KMB/LW added that they also carried out road test assessment to ensure the applicants' driving competence even though the applicants had no conviction record in the past. For employment of part-time captains, CTB/NWFB advised that they would consider applicants with experience of driving franchised buses only and not other types of vehicles.

6. CTB/NWFB and KMB/LW advised that training were provided to all new recruits, including but not limited to driving skills training for preparation of relevant driving test to new recruits who had not held driving licences with Public Bus (Class 10) and/or Public Bus - Franchised endorsement (Class 17). For new recruits who had already held driving licences with Public Bus and/or Public Bus – Franchised endorsement, CTB/NWFB and NLB advised that only vehicle and route familiarization training would be provided.

(b) In-service bus captains

7. It was noted that all bus operators would provide classroom

Action

refresher course to in-service bus captains at least once in three years. NLB said that training for in-service bus captains was similar to that of the new recruits and they would consider employing in-house driving instructors in near future to cope with the need for preparation of conversion from single decker to double decker on their routes. For in-service bus captains who had ceased operating buses for a while, KMB/LW and CTB/NWFB advised that assessments on their driving competence would be carried out by in-house driving instructors before the bus captains returned to duties. Appropriate training would be provided to individual bus captains to follow up with the result of the in-house assessment if necessary.

(c) Driving behavior monitoring to in-service bus captains

8. CTB/NWFB and KMB/LW advised that black box was installed on all buses to monitor driving performance of bus captains. CTB/NWFB supplemented that captains' performance on the selected road sections with speed limit at 50 km/hour which were exposed to higher traffic accident risks was monitored while KMB/LW advised that they mapped all road sections with their respective speed limits and monitored captains operating the buses exceeding the respective speed limits. Exception reports would be generated should captains fail to comply. CTB/NWFB and KMB/LW added that they would take disciplinary actions to bus captains who committed driving offence and failed to comply with the companies' performance requirements persistently. In addition, KMB/LW would also investigate the causes of speeding and consider providing appropriate training to the captains, subject to the internal investigation results. It was noted that the disciplinary actions and follow-up actions taken to the bus captains would be varied, depending on the nature and the persistency of the driving malpractice committed by the captains. TD requested all bus operators to provide their companies' guidelines on taking disciplinary actions, by listing the disciplinary actions taken to captains from dismissal to compulsory training on different types of driving malpractices or driving offences committed by the bus captains.

All bus
operators

9. Apart from the use of black box, KMB/LW supplemented that they would conduct on-board monitoring on bus captains' driving performance. NLB advised that they carried out on-board monitoring upon receipt of complaints or in case of special incidents.

10. In addition to the normal classroom training, TD suggested all bus operators to consider making use of putting up notice at

All bus

conspicuous locations and video uploaded onto companies' website to disseminate driving safety messages to the bus captains.

Action

operators

11. In response to TD's enquiry on any analysis on the correlation between a particular type of bus captains and accident rate, CTB/NWFB and KMB/LW expressed that according to their in-house analysis, there was no clear indication that bus captains with short or long years of service would expose to higher risk of traffic accidents involving passengers fatal or injury. KMB/LW considered that it should not be the captains' sole responsibility to the high accident rate, and, in some cases, behavior of other road users and/or the road design might also be the contributing factors. CTB/NWFB also pointed out that the occurrence of a traffic accident might not merely be due to insufficient training. In response to the above, TD replied that it would be important for the bus operators to carry out an analysis on the correlation of a number of aspects, including captains' age, year of service and other external factors etc., with the accident rate. With the results of the analysis, the bus operators could strengthen the training to the captains purposively.

12. TD reminded the bus operators to submit training information and requested the bus operators to -

All bus operators

- i) review the current training arrangement, including (a) the scope of content that emotion management, complaint handling, alert driving, and safety tips during on-the-road training/ route training etc. were included, (b) frequency and duration, and (c) form of training and distribution channels;
- ii) carry out analysis on the correlation between the accident rate and bus captains' ages as well as the number of training hours received by bus captains;
- iii) compare the in-house training with the training practice of bus captains in other places, such as Singapore and London; and
- iv) provide suggestions to enhance training arrangements, with the ultimate objective to prevent accident happening in the future.

Action**(D) Installation of seat belts**

13. At present, all exposed seats on franchised buses have been installed with seat belts. Taking the technical feasibility into the account, TD proposed to install seat belts on all seats for new buses and retrofit seat belts on all seats on the existing buses.

14. After discussion, all franchised bus operators agreed that installation of seat belts on new buses was feasible if specified when making the procurement. KMB/LW supplemented that there would be difficulties to add the requirement for seat belt installation if the new buses had already been under manufacturing.

15. CTB/NWFB and KMB/LW pointed out that the installation of seat belts on lower deck of the existing buses would increase the structural loading of buses. CTB/NWFB added that the floor on the lower deck was mainly made up of fiberglass which would made retrofitting seat belts onto existing seats extremely difficult and nearly impossible.

16. CTB/NWFB queried the practicability of installation of seat belts on all seats to enhance passengers safety because it would be difficult for the bus captains to ensure passengers on buses wearing seat belts. Besides, CTB/NWFB also raised the concerns on the need of wearing seat belt by standees who could not be provided with seat belts. TD advised that there were requests for a comprehensive review on seat belts installation on bus after the traffic accidents. It had been more than a decade since the last review on the installation of seat belt on buses. The objective of the prevailing discussion should focus on the technical feasibility, cost-effectiveness, applicability and other issues relating to installation of seat belts on all seats other than exposed seats.

17. TD proposed that a TM to be held in the following week with the bus operators and the major bus manufacturers, such as Alexander Dennis, Volvo, Man, Benz and Scania to discuss the subject in depth. The TM would look into i) the existing provision of the buses, ii) the feasibility to install seat belts on new buses, and iii) the feasibility and difficulties to install seat belts on existing operating buses. Further discussions and recommendations would be made based on the study and information gathered.

TD and all
bus
operators

(Post-meeting notes: The TM was held on 27 March with the major bus manufacturers and all franchised bus operators to explore the technical

Action

feasibility of different hardware and technologies of on-vehicle safety devices. Notes of the TM would be prepared separately.)

(E) Installation of on-vehicle safety device

18. TD briefed the members the on-vehicle safety devices outlined in the scope of work, and invited bus operators' views on installation of these devices.

19. CTB/NWFB and NLB expressed grave concerns that the installation of speed display unit for passengers under item (3)(a) might induce conflicts between the bus captains and passengers. To alert the bus captains on vehicle speed, CTB/NWFB said that majority of their buses were equipped with audible alarm and warning sign on dashboard when buses were being operated exceeding 70 km/hour and the device would be expanded to cover all buses in their fleet in the future. KMB/LW reported that all buses in their fleets had been equipped with audible alarm and warning sign on dashboard. TD responded that this device would further be discussed in the TM.

20. In response to the proposal of installation of speed control aided by GPS under item (3)(d), CTB/NWFB and KMB/LW responded that signal errors might frequently occur because of the unique landscape features in the territory. High density development and insufficient network coverage might also affect the stability and the accuracy of the GPS signals. It would take a long testing time to ensure the reliability of the GPS system.

21. With regard to the installation of collision prevention and lane keeping device under item (3)(f), NWFB/CTB expressed reservation in view of the results of their trial of the device on buses about two to three years ago. With time, the bus captains tended to ignore intermittent alarms due to frequent lane changing in urban areas and the need of weaving to kerbside or bus bays for picking up and setting down passengers at bus stops. TD suggested exploring the applicability of the technology on bus routes operating in the New Territories or to/from the Airport in the coming TMs.

TD and all
bus
operators

(See post-meeting note to para. 17.)

22. Concerning the monitoring device on the bus captain's condition under item (3)(g), NLB pointed out that some coaches were equipped with shaking driver's seat to serve the same purpose.

KMB/LW added that face and eye detections were also available as an alternative.

23. After deliberation, it was agreed that the feasibility and applicability of the above technologies and devices would be further investigated in the TM.

TD and all
bus
operators

(See post-meeting note to para. 17.)

(F) Other proposed measures

24. TD invited members' views on the installation of on-vehicle cameras to enhance bus safety.

25. CTB/NWFB and KMB/LW advised that all CTB/NWFB buses and about 60% of KMB/LW buses had been installed with cameras in the bus captain's cabin. KMB/LW supplemented that over 2 000 buses under their fleet had been equipped with 9 cameras on each bus. CTB/NWFB and KMB/LW added that one of the purposes of the installation of cameras on vehicles was to facilitate accident investigation. That said, the bus operators considered that installation of on-vehicle cameras might not be able to prevent all incidents because some incidents were caused by the unpredictable behaviours of passengers and road users.

26. In addition to the on-vehicle safety device listed in the scope of work, TD proposed to look into the feasibility and the applicability of geofencing, speed alarm, tilt alarm and heat windscreen in the TM.

TD and all
bus
operators

(See post-meeting note to para. 17.)

(G) A.O.B.

28. There being no other business, the meeting adjourned at 4.40 p.m..

**Working Group on
Enhancement of Safety of Franchised Buses**

Scope of Work

After a traffic accident involving a bus of Kowloon Motor Bus Company Limited took place on Tai Po Road on 10 February 2018, a Working Group is proposed to be set up to review and study measures to further enhance bus safety. The scope of the Working Group shall include –

- (1) To review and enhance the training arrangements targeting different types of captains (e.g. new recruits, in-service captains and in-service captains having committed traffic offence or having involved in accident, etc.);
- (2) To examine the technical feasibility, cost-effectiveness, applicability and any other issues relating to installation of seat belts on all seats other than exposed seats;
- (3) To explore the technical feasibility, cost-effectiveness, applicability and any other issues relating to the installation of on-vehicle safety device, including but not limiting to the following –
 - (a) Speed display unit for passengers;
 - (b) Active / passive roll stability control;
 - (c) Electronic stability control;
 - (d) Speed control aided by GPS;
 - (e) Speed limiter to cap maximum speed within 70 km/hour;
 - (f) Collision prevention and lane keeping device; and
 - (g) Monitoring device on captain's condition e.g. dozing, drowsiness.
- (4) Any other proposed measures related to the above 3 areas as considered appropriate.

Membership

Convener

| | | |
|----|------------------|---|
| TD | Miss Rachel Kwan | Assistant Commissioner for Transport/Special Duties |
|----|------------------|---|

Members – TD

| | | |
|------|-----------------|---|
| BRB | Miss Amy Tse | Principal Transport Officer/Bus and Railway 1 |
| | Ms. Amy Lee | Chief Transport Officer/Special Duties |
| VSSD | Mr David Tsang | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standards |
| | Mr William Shum | Senior Engineer/Vehicle Regulations and Standards |
| | Mr Jimmy Yeung | Senior Engineer/Vehicle Safety |
| | Mr Danny Chan | Engineer/Bus Safety |
| RSSD | Mr Tony Yau | Chief Engineer/Road Safety and Standards |
| | Mr Gary Wong | Senior Engineer/Road Safety 2 |

Members – Bus Operators

| | | |
|--------|-------------------|--|
| KMB/LW | Mr Godwin So | General Manager, Corporate Planning & Business Development |
| | Mr Leung Kin Wang | Operations Director |
| | Mr James Wong | Head of Training and Quality Assurance Department |
| CTB/ | Mr William Chung | Head of Operations |

| | | |
|-------------------|------------------|--------------------------------------|
| NWFB | Mr Paul Li | Head of Engineering |
| | Mr Vincent Fung | Senior Operations Manager |
| NLB | Mr Benny Chan | Deputy General Manager |
| | Mr Patrick YEUNG | Head of Service and Training |
| | Mr Billy WONG | Assistant Manager, Operation Support |
| <u>Note-taker</u> | | |
| TD | Miss Natalie Yu | Senior Transport Officer/Railway 6 |

Technical Meetings

Separate technical meetings will be set up to discuss the measures in more details.

Interval of Meeting

On monthly basis or at more frequent interval if necessary (till completion of the review)

Deliverable

A report on the outcome and recommendations of the review is expected to be submitted to the Commissioner for Transport in 3 months' time.

**Technical Meeting on
Training Arrangements for Bus Captains**

**Notes of 1st Meeting held on 19 April 2018 at 10.00 a.m.
at Room 4110A, 41/F, Immigration Tower, Wan Chai**

Present:

Chairperson

| | | |
|----|------------------|--|
| TD | Miss Rachel KWAN | Assistant Commissioner for Transport/Special Duties |
|----|------------------|--|

Member - TD

| | | |
|-----|--------------|--|
| BRB | Miss Amy TSE | Principal Transport Officer/Bus and Railway 1 |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |

Member – Bus Operators

| | | |
|--------|----------------|--|
| KMB/LW | Mr. James WONG | Head of Training and Quality Assurance Department |
|--------|----------------|--|

| | | |
|------------|------------|------------|
| [REDACTED] | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] |

Note-taker

| | | |
|----|-----------------|------------------------------------|
| TD | Miss Natalie YU | Senior Transport Officer/Railway 6 |
|----|-----------------|------------------------------------|

Action

(1) Discussion on the training arrangements for bus captains

(a) Structure of training system

After deliberation, all bus operators agreed that the structure

Action

of training system for bus captains should include the following training courses:

- (i) Induction course
- (ii) New bus route training course
- (iii) New bus model training course
- (iv) Refresher course
- (v) Ancillary training course

(b) Modules and their weightings for induction course and refresher course

2. All bus operators confirmed that the induction course consisted of classroom and route trainings for both full-time and part-time bus captains, of which KMB/LW mentioned that seven days out of its nine-day induction course was on-vehicle training with behind-the-wheel practice to each bus captain trainee

3. All bus operators advised that their induction course had covered the following scope:

- (i) Driving and route training
- (ii) Operations of on-vehicle device/ facilities
- (iii) Safe driving and road safety
- (iv) Handling incident/emergency
- (v) Customer service & EQ management
- (vi) Others, e.g. company rules

4. However, all bus operators opined that it would be difficult to segment each of the above topics and give a single weighting for each of them as the training would cover multiple topics at a single point of time. For example, operations of in-bus facilities and safety awareness would be delivered during the driving and route training. With the consideration of the above, the TD proposed to provide a combined weighting across some of the above-mentioned topics, such

Action

as driving and route training, operations of on-vehicle device/ facilities and safety awareness, with a range of relative weightings. All bus operators had no objection to further deliberate the relative weighting once TD had drawn up any proposal.

5. As an assistant measure to bus captains, KMB/LW said that they had a "Buddy Bus Captain" scheme under which experienced bus captain would be arranged to accompany the new bus captain in his first few revenue trips and to give advice to him when necessary.


6.



7.



8. KMB/LW and NLB said that their refresher courses covered both classroom and route training. KMB/LW advised that the objective of the refresher course was to enhance the service level of in-service bus captains and allow their instructors to observe the bus captains' driving performance. KMB/LW did not have part-time bus captains any more.

**(c) Duration of induction course**

9.



Action

10. [REDACTED]

(d) Duration and frequency of refresher course

11. [REDACTED]

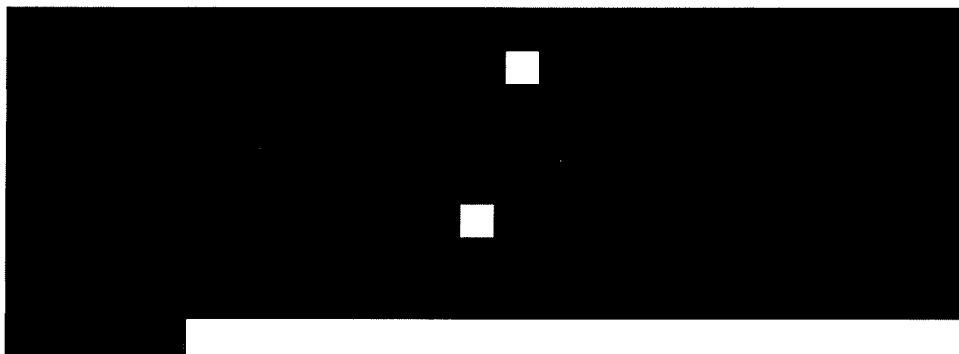
12. It was clarified by all franchised bus operators in the meeting that it would not be a must for a bus captain to attend the refresher course once every three years if he/she attended other training courses provided by the bus operators in a three-year period.

(e) Training on new route and new bus model

13. KMB/LW pointed out that the bus captains might receive an integrated training of new routes and new bus model in one-go.

14. In particular to new route training, KMB/LW reported that since the traffic accident involving a bus on Tai Po Road on 10 February 2018, their new route training required the bus captains to have behind-the-wheel practice with instructor-to-trainee ratio at 1:6. During the course, bus captains were required to operate the buses. KMB/LW also pointed out that the instructor-to-trainee ratio for integrated training for new route and new bus model was 1:3, trainees would have behind-the-wheel practice and they would be more likely to operate a full trip during the training.

15. [REDACTED]

Action

16. [REDACTED]

(f) Guidelines on re-training requirements for bus captains

17. All bus operators expressed no objection to unify the name of the re-training courses provided to (i) bus captains with improper driving behavior and (ii) bus captains who have left the driving post for a certain period of time as “Ancillary Training” in the proposed guidelines on training under planning.

18. [REDACTED]

19. Despite that KMB/LW did not monitor DOPs of their bus captains, KMB/LW pointed out that bus captains had to report traffic accidents during the working hours within 72 hours and the company would follow up with the bus captains with the driving offence as deem necessary. In addition, KMB/LW would also monitor the bus captains’ driving behavior through review of the black box information. Should improper driving behaviour of a bus captain such as speeding be found repeatedly (irrespectively of whether such behaviour leads to incurrance of any DOPs), he/she would be arranged to attend the ancillary training. Upon TD’s request in consideration of monitoring

Action

the situation of bus captains' DOPs for sake of public safety, KMB/LW replied that they had included the condition into the **new** employment contracts of bus captains on disclosure of DOPs information. However, it would be difficult to extend the requirements to the in-service bus captains with employment contracts of older version due to personal data privacy issue.

20. [REDACTED]

[REDACTED] TD was concerned that the DOPs could have lapsed by the time the bus captains reported to the company and thus doubted the effectiveness on taking follow up actions on bus captains timely to address their improper driving behaviour. TD requested NLB to review the existing practice and make necessary improvement.

NLB

21. For training courses for bus captains who have left the driving posts for a certain period of time, all bus operators confirmed that assessments would be carried out by in-house instructors to assure the driving competence before the bus captains returning to services after leaving the driving posts for more than 30 days. In addition to the driving competence assessment, KMB/LW reported that they provided a one-day ancillary training course to the bus captains with instructor-to-trainee ratio at 1:3 [REDACTED]

(g) Training for part-time drivers

22. KMB/LW reported that they had stopped recruiting new part-time bus captains ("PTBCs") since 15 February 2018. The existing PTBCs had received all training courses same as the full-time bus captains did. Yet, KMB/LW would check if their PTBCs were required to attend refresher course.

KMB/LW

[Post-meeting note: KMB/LW advised that its refresher course is provided to all bus captains, including part-time, hourly-rated or office staff bus captains.]

Action

23.

[REDACTED]

24.

[REDACTED]

[REDACTED]

25.

[REDACTED]

[REDACTED]

(h) Internal monitoring and auditing mechanism

26. All bus operators agreed that there was a need to have an internal monitoring and auditing mechanism such that there would be a responsible party in each bus company to ensure appropriate training would be assigned to bus captains timely and training details would be

All bus

Action

properly recorded. All bus operators agreed to check the existing practice of their companies' internal monitoring and auditing mechanism and review if any improvements should be made.

operators

(2) A.O.B.**(a) Comparison of the in-house training with the training practice of bus captains in other places**

27.

28. Upon KMB/LW's enquiry, TD clarified that the research on bus captain's training practice in other places aimed to position the bus captains training currently provided by bus operators in Hong Kong and identify if any training elements could be applied to the existing training. All bus operators were encouraged to carry out the research.

All bus
operators



(b) Analysis on the correlation between the accident rate and the bus captains' ages as well as the number of training hours received by bus captains

29.


 KMB/LW

Action

captains.

[Post-meeting notes: KMB/LW has submitted their findings on the correlation between the accident rate and bus captains' age from 2014 to 2017 on 25 April 2018. 


30. It was agreed that the number of traffic accidents with person injured would form the basis of the number of accidents in the analyses. To ensure meaningful comparison between full-time bus captains and part-time bus captains, it was also agreed that number of working hours would apply.

(c) Training guidelines

31. All bus operators had no objection to TD's plan to propose a training guideline in near future.

32. There being no other business, the meeting adjourned at 1:00 p.m..

**Technical Meeting on
Training Arrangements for Bus Captains**

**Notes of 1st Meeting held on 19 April 2018 at 10.00 a.m.
at Room 4110A, 41/F, Immigration Tower, Wan Chai**

Present:

Chairperson

| | | |
|----|------------------|--|
| TD | Miss Rachel KWAN | Assistant Commissioner for Transport/Special Duties |
|----|------------------|--|

Member - TD

| | | |
|-----|--------------|--|
| BRB | Miss Amy TSE | Principal Transport Officer/Bus and Railway 1 |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |

Member – Bus Operators

| | | |
|----------|-------------------|--|
| KMB/LW | Mr. James WONG | Head of Training and Quality Assurance Department |
| CTB/NWFB | Mr. William CHUNG | Head of Operations |
| | Mr. Vincent FUNG | Senior Operations Manager |
| | Mr. Ryan LO | Operations Training Manager |
| NLB | Mr. Benny CHAN | Deputy General Manager |
| | Mr. Richard LEE | Training Manager |

Note-taker

| | | |
|----|-----------------|------------------------------------|
| TD | Miss Natalie YU | Senior Transport Officer/Railway 6 |
|----|-----------------|------------------------------------|

Action

(1) Discussion on the training arrangements for bus captains

(a) Structure of training system

After deliberation, all bus operators agreed that the structure

Action

of training system for bus captains should include the following training courses:

- (i) Induction course
- (ii) New bus route training course
- (iii) New bus model training course
- (iv) Refresher course
- (v) Ancillary training course

(b) Modules and their weightings for induction course and refresher course

2. All bus operators confirmed that the induction course consisted of classroom and route trainings for both full-time and part-time bus captains, of which KMB/LW mentioned that seven days out of its nine-day induction course was on-vehicle training with behind-the-wheel practice to each bus captain trainee while CTB/NWFB said that 13-day on-vehicle training with behind-the-wheel practice out of 14-day induction course was provided to each bus captain trainee.

[Post meeting note: CTB/NWFB clarified that the induction course for full-time bus captains included one day classroom training and 10 to 15 days driving training (depending on the instructor to bus captain ratio which varied from 1:3 to 1:5).]

3. All bus operators advised that their induction course had covered the following scope:

- (i) Driving and route training
- (ii) Operations of on-vehicle device/ facilities
- (iii) Safe driving and road safety
- (iv) Handling incident/emergency
- (v) Customer service & EQ management
- (vi) Others, e.g. company rules

4. However, all bus operators opined that it would be difficult to segment each of the above topics and give a single weighting for each of them as the training would cover multiple topics at a single point of time. For example, operations of in-bus facilities and safety awareness would be delivered during the driving and route training. With the consideration of the above, the TD proposed to provide a combined weighting across some of the above-mentioned topics, such

Action

as driving and route training, operations of on-vehicle device/ facilities and safety awareness, with a range of relative weightings. All bus operators had no objection to further deliberate the relative weighting once TD had drawn up any proposal.

5. As an assistant measure to bus captains, KMB/LW said that they had a “Buddy Bus Captain” scheme under which experienced bus captain would be arranged to accompany the new bus captain in his first few revenue trips and to give advice to him when necessary.

6. TD considered that this scheme might be beneficial to new bus captains who were new to franchised bus operations and therefore requested CTB/NWFB and NLB to consider adopting similar arrangement in addition to their existing training course. In response, CTB/NWFB and NLB would consider to arrange similar “Buddy Bus Captain” scheme for the new bus captains.

CTB/NWFB
and NLB

[Post meeting note: CTB/NWFB advised that they started to arrange experienced bus captains to accompany new bus captains on non passenger-carrying buses in their first day of work after the induction training from mid-May 2018. NLB replied that “Buddy Bus Captain” scheme was scheduled to be introduced as part of its training course in Q4 2018.]

7. For refresher course, CTB/NWFB reported that only classroom training was provided for full-time bus captains to refresh their safety awareness, skills in emotional management, knowledge on prevailing regulations, etc. so as to facilitate their daily franchised bus operation.

8. KMB/LW and NLB said that their refresher courses covered both classroom and route training. KMB/LW advised that the objective of the refresher course was to enhance the service level of in-service bus captains and allow their instructors to observe the bus captains’ driving performance. KMB/LW did not have part-time bus captains any more. NLB also arranged refresher course for their part-time bus captains while CTB/NWFB did not arrange refresher course for their part-time bus captains.

(c) Duration of induction course

9. CTB/NWFB, KMB/LW and NLB advised that the duration of their induction courses were approximately 14 days, nine days and five days respectively, subject to the instructor-to-trainee ratio and/or the

Action

performance of the bus captain trainees.

10. It was noted that the number of training hours to each bus captain trainee might be similar among CTB/NWFB and KMB/LW as the instructor-to-trainee ratios for CTB/NWFB and KMB/LW were approximately 1:4 and 1:2 respectively. Due to small number of bus captains, NLB said that the instructor-to-trainee ratio for NLB was 1:2 or 1:3.

(d) Duration and frequency of refresher course

11. CTB/NWFB and KMB/LW advised that the duration of their refresher course were approximately eight hours. CTB/NWFB would deliver the course in two consecutive half days while KMB/LW would deliver the course in one day. NLB advised that the duration of the refresher course was two days.

12. It was clarified by all franchised bus operators in the meeting that it would not be a must for a bus captain to attend the refresher course once every three years if he/she attended other training courses provided by the bus operators in a three-year period.

(e) Training on new route and new bus model

13. KMB/LW pointed out that the bus captains might receive an integrated training of new routes and new bus model in one-go.

14. In particular to new route training, KMB/LW reported that since the traffic accident involving a bus on Tai Po Road on 10 February 2018, their new route training required the bus captains to have behind-the-wheel practice with instructor-to-trainee ratio at 1:6. During the course, bus captains were required to operate the buses. KMB/LW also pointed out that the instructor-to-trainee ratio for integrated training for new route and new bus model was 1:3, trainees would have behind-the-wheel practice and they would be more likely to operate a full trip during the training.

15. CTB/NWFB reported that they would arrange in-service bus captains to ride on the revenue trip of the route as a passenger to observe the route and the locations of the en-route bus stops. CTB/NWFB advised that they were considering to enhance this by arranging the in-service bus captains to practise on the new route by

Action

driving non passenger-carrying buses on their own after riding on the revenue trip as observer of the route. For some routes which required special driving techniques, such as those serving Stanley, Shek O and the Peak, they would arrange behind-the-wheel practice under supervision of in-house instructors to the bus captains who would be assigned to operate these routes. CTB/NWFB added that in-service bus captains would be trained on-vehicle by in-house instructors to operate the new routes, and yet it would be limited to the new road sections only.

16. NLB informed that for new route training, their bus captains were provided behind-the-wheel practice under the supervision of the in-house instructors.

(f) Guidelines on re-training requirements for bus captains

17. All bus operators expressed no objection to unify the name of the re-training courses provided to (i) bus captains with improper driving behavior and (ii) bus captains who have left the driving post for a certain period of time as “Ancillary Training” in the proposed guidelines on training under planning.

18. For re-training requirements for bus captains with improper driving behaviours, CTB/NWFB reported that they would provide driving training to bus captains who either involved in traffic accidents, received complaints or had incurred eight driving offence points (“DOPs”) or above to rectify the driving malpractice with assessment by the in-house instructors afterwards. To monitor the latest position of DOPs of a bus captain, CTB/NWFB supplemented that they also required their bus captains to report to the company on each DOP incurred and would carry out random check on a monthly basis upon receipt the consent from the bus captains.

19. Despite that KMB/LW did not monitor DOPs of their bus captains, KMB/LW pointed out that bus captains had to report traffic accidents during the working hours within 72 hours and the company would follow up with the bus captains with the driving offence as deem necessary. In addition, KMB/LW would also monitor the bus captains’ driving behavior through review of the black box information. Should improper driving behaviour of a bus captain such as speeding be found repeatedly (irrespective of whether such behaviour leads to incurrance of any DOPs), he/she would be arranged to attend the ancillary training. Upon TD’s request in consideration of monitoring

Action

the situation of bus captains' DOPs for sake of public safety, KMB/LW replied that they had included the condition into the **new** employment contracts of bus captains on disclosure of DOPs information. However, it would be difficult to extend the requirements to the in-service bus captains with employment contracts of older version due to personal data privacy issue.

20. NLB advised that they requested bus captains to report their DOPs status once a year. They would also follow up with bus captains with improper driving behaviour and arrange ancillary training course to bus captains as deem appropriate. NLB said they would consider to provide ancillary training course for bus captains who had accumulated eight DOPs or above. TD was concerned that the DOPs could have lapsed by the time the bus captains reported to the company and thus doubted the effectiveness on taking follow up actions on bus captains timely to address their improper driving behaviour. TD requested NLB to review the existing practice and make necessary improvement.

NLB

21. For training courses for bus captains who have left the driving posts for a certain period of time, all bus operators confirmed that assessments would be carried out by in-house instructors to assure the driving competence before the bus captains returning to services after leaving the driving posts for more than 30 days. In addition to the driving competence assessment, KMB/LW reported that they provided a one-day ancillary training course to the bus captains with instructor-to-trainee ratio at 1:3 while NLB said that they provided a one or two-day ancillary training course to the bus captains. CTB/NWFB pointed out that no further ancillary training would be provided if the bus captains were able to demonstrate sound driving competence during the assessment.

(g) Training for part-time drivers

22. KMB/LW reported that they had stopped recruiting new part-time bus captains ("PTBCs") since 15 February 2018. The existing PTBCs had received all training courses same as the full-time bus captains did. Yet, KMB/LW would check if their PTBCs were required to attend refresher course.

KMB/LW

[Post-meeting note: KMB/LW advised that its refresher course is provided to all bus captains, including part-time, hourly-rated or office staff bus captains.]

Action

23. NLB confirmed that there was no difference in the training arrangements between full-time bus captains and PTBCs.

24. CTB/NWFB advised that two-day induction course would be provided to PTBC trainees. The scope of induction course was different from that of induction course for full-time bus captain trainees. It would be mainly on route training and bus model training. Only two routes would be trained for PTBCs, as compared to five to six routes for full-time bus captains. TD considered that there would be significant differences in time and scope of the induction courses between full-time bus captains and PTBCs were undesirable and requested CTB/NWFB to review the induction course for PTBCs. CTB/NWFB agreed to consider extending the duration of induction course for PTBCs.

CTB/NWFB

[Post-meeting note: CTB/NWFB advised that the duration of induction training for new PTBCs would be extended from 2 days (16 hours) to 4 days (36 hours) since June 2018. With instructor to bus captain ratio at 1:2, each student would receive 16-hour behind-the-wheel training and 4-hour classroom training.]

25. CTB/NWFB pointed out that it would be difficult for them to provide refresher course to their part-time bus captains because these PTBCs would unlikely be able to attend any refresher course during daytime given the commitment of their full-time jobs. CTB/NWFB also reported that ancillary training would not be provided to PTBCs who have left the driving post for more than 30 days. TD strongly requested CTB/NWFB to provide refresher course and ancillary training to PTBCs. CTB/NWFB replied that they would consider to enhance the training for PTBCs to ensure their driving competence.

CTB/NWFB

[Post-meeting note: CTB/NWFB advised that PTBCs would be arranged to attend refresher course similar to that of provided to full-time bus captains once every three years. The effective date of the arrangement would be advised after communicating with the PTBCs on the new arrangements.]

(h) Internal monitoring and auditing mechanism

26. All bus operators agreed that there was a need to have an internal monitoring and auditing mechanism such that there would a responsible party in each bus company to ensure appropriate training would be assigned to bus captains timely and training details would be

All bus

Action

properly recorded. All bus operators agreed to check the existing practice of their companies' internal monitoring and auditing mechanism and review if any improvements should be made.

operators

(2) A.O.B.**(a) Comparison of the in-house training with the training practice of bus captains in other places**

27. To follow up on the request made in the first meeting of the Working Group on Enhancement of Franchised Buses Safety regarding the research of bus captains' training practice in London and Singapore, CTB/NWFB shared their findings upon TD's enquiry that a bus driving licence applicant in the United Kingdom and Singapore was required to attend a relevant vocational training course in addition to the driving test so as to obtain a vocational driving licence to operate buses, such practice was similar to the application of public light bus (Class 5) driving licence endorsement in Hong Kong. In addition, they noted that simulator was deployed for route training in Singapore. However, CTB/NWFB said that no training information could be collected from overseas bus operators due to lack of contacts of overseas bus operators.

28. Upon KMB/LW's enquiry, TD clarified that the research on bus captain's training practice in other places aimed to position the bus captains training currently provided by bus operators in Hong Kong and identify if any training elements could be applied to the existing training. All bus operators were encouraged to carry out the research.

All bus operators

(b) Analysis on the correlation between the accident rate and the bus captains' ages as well as the number of training hours received by bus captains

29. To address the concern from CTB/NWFB and KMB/LW, the meeting revisited the above requests made in the first meeting of the Working Group on Enhancement on Safety of Franchised Buses. CTB/NWFB and KMB/LW were requested to submit the correlation between the accident rate and the bus captains' ages for the past three years, while CTB/NWFB would also provide the correlation between the accident rate and the types of bus captains (i.e. full-time bus captains and part-time bus captains) from 2015 to 2017. NLB was not required to provide such information due to its limited number of bus

CTB/NWFB & KMB/LW

Action

captains.

[Post-meeting notes: KMB/LW has submitted their findings on the correlation between the accident rate and bus captains' age from 2014 to 2017 on 25 April 2018. CTB/NWFB has submitted their findings on the correlation between the accident rate and the bus captains' ages and the correlation between the accident rate and the types of bus captains in the past three years on 18 May 2018.]

30. It was agreed that the number of traffic accidents with person injured would form the basis of the number of accidents in the analyses. To ensure meaningful comparison between full-time bus captains and part-time bus captains, it was also agreed that number of working hours would apply.

(c) Training guidelines

31. All bus operators had no objection to TD's plan to propose a training guideline in near future.

32. There being no other business, the meeting adjourned at 1:00 p.m..

[Blank Page]

**Working Group on
Enhancement of Safety of Franchised Buses**

**Notes of 2nd Meeting held on 23 April 2018 at 3.00 p.m.
at Room 4110B, 41/F, Immigration Tower, Wan Chai**

Present:

Convener

| | | |
|----|------------------|--|
| TD | Miss Rachel KWAN | Assistant Commissioner for Transport/Special Duties |
|----|------------------|--|

Member – TD

| | | |
|------|------------------|--|
| BRB | Ms. Amy LEE | Chief Transport Officer/Special Duties |
| | Mr. Albert HO | Chief Transport Officer/Bus and Railway 6 |
| VSSD | Mr. William SHUM | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standards |
| | Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| | Mr. Danny CHAN | Engineer/Bus Safety |
| RSSD | Mr. Tony YAU | Chief Engineer/Road Safety and Standards |
| | Mr. Gary WONG | Senior Engineer/Road Safety 2 |

Member – Bus Operators

| | | |
|--------|-----------------------|---|
| KMB/LW | Mr. Godwin SO | General Manager, Corporate Planning & Business Development |
| | Mr. LEUNG Kin Wang | Operations Director |
| | Mr. James WONG | Head of Training and Quality Assurance Department |

CTB/NWFB

| | |
|--|--|
| | |
| | |
| | |

NLB

| | |
|--|--|
| | |
| | |
| | |

Note-taker

TD

Miss Natalie YU

Senior Transport Officer/Railway 6

Action

DISCUSSION

(A) Confirmation of notes of meeting

The Convener acknowledged that the draft notes of the last meeting had been circulated to Members and comments from Members had been incorporated in the notes of meeting. The Meeting confirmed the notes of the last meeting.

(B) Matters arising from the last meeting

(i) Internal guidelines on taking disciplinary actions

2. In response to TD's enquiries on the internal guidelines on taking disciplinary actions, all franchised bus ("FB") operators advised that they had not laid down hard and fast rules or internal guidelines on the circumstances that specific disciplinary actions would be taken against the bus captains with improper driving behavior. The disciplinary action to be taken would depend on the nature, seriousness, and persistency of the behaviour.

3. KMB/LW supplemented that follow up actions would be taken, including issuing of verbal advice or warning, written warning, or mandatory participation in ancillary training, etc.. [REDACTED]

4. All FB operators said that they had their appeal mechanism. In case the subject bus captain was not convinced with the actions taken against him, he might make their appeal vide the appeal mechanism.

(ii) Correlation between the accident rate and bus captains' age as well as the full-time/ part-time bus captains

5. TD reminded [REDACTED] and KMB/LW to submit their findings on the correlation between accident rate and bus captains' age for the past 3 years. [REDACTED]

Action

[REDACTED]. KMB/LW reported that the analysis was close to final and would submit to TD in the next couple of days. KMB/LW pointed out that the bus captains' age might not be the sole contributing factor to traffic accident, road condition and bus captains' performance, which might be contributing to a traffic accident, should also be considered.

[Post-meeting notes: KMB/LW has submitted their findings on the correlation between the accident rate and bus captains' age from 2014 to 2017 on 25 April 2018.]

6. [REDACTED]

(iii) Comparison of the in-house training with the training practice of bus captains in other places

7. In respect of making comparison of training practice of bus captains in other jurisdictions, KMB/LW suggested TD to carry out comparison with adjacent cities, such as Shenzhen and Macau, in view of costs and time incurred for obtaining the information from London and Singapore. TD noted KMB/LW's suggestions.

(C) Training for bus captains

(i) Formulation of a set of guidelines for training

8. Following the discussion in the Technical Meeting ("TM") on training arrangements for bus captains, TD proposed to formulate a set of Guidelines to provide a framework of the training to be provided by bus operators which would cover -

- structure of training (e.g. induction training (including classroom training and route training) for the new recruits, refresher training for the in-service bus captains, and bus route training, bus model training as well as ancillary training for in-service bus captains on a need basis);
- modules of the induction and refresher training with a range of relative weightings while the actual weighting of each module would be decided by the respective

Action

franchised bus operators to suit their operational needs; and

- guiding principles on the need for bus captains to participate in the ancillary training.

All bus operators had no objection to being guided by a set of Guidelines with the above-mentioned outlines. TD advised that the draft Guidelines would be drawn up for all bus operators' comments by 11 May 2018. TD

(ii) Internal monitoring and audit mechanism

9.

10. KMB/LW advised that their Human Resources Department would nominate new recruits to attend induction training. Respective depots would be responsible for their in-service bus captains' route training, refresher training and ancillary training for bus captains who have left the driving post for more than 30 days while the Training Department would notify respective depots upon identifying the need for the refresher and ancillary training from training record. The Performance Management Section would nominate the ancillary training for bus captains with improper driving behaviours. KMB/LW also advised that training arrangement for bus captains was also scrutinized by their Internal and Audit Section.

11.

12. All FB operators agreed that there should be an internal monitoring and audit mechanism on the training arrangement so that

training situation of bus captains could be traced and abnormalities could be detected and reported to senior management and the Board of their respective company. All FB operators would advise of TD of their own internal monitoring and audit mechanism in the next meeting.

Action

All FB operators

(iii) Improvement of their training to bus captains

13. It was learnt from the TM that KMB/LW had arranged “buddy bus captain”, who were usually experienced bus captains, to accompany new recruits on their first day of providing passenger service.

14.

15.

(D) Installation of seat belts for all passenger seats

16. After checking with the bus manufacturers on the feasibility for installation of seat belts for all passenger seats for new buses, all FB operators advised that it was technically feasible to install seat belts for all passenger seats for new buses to be procured. KMB/LW supplemented that it would cost about an additional of £5,000 for each double-decker to install seat belts for all passenger seats. All bus operators agreed to incorporate this requirement in their new

All bus operators

single-decked buses and double-decked buses to be procured.

Action

17. For new buses which had been procured but not yet delivered, KMB/LW said they would request the bus manufacturers to install seat belts for all passenger seats if it would be feasible to include such requirement. KMB/LW advised that 145 new buses to be delivered before September 2018 could be able to install with seat belts for all passenger seats.

18. [REDACTED]

TD encouraged all FB operators to continue to study the technical feasibility of retrofitting seat belts on all passenger seats on each bus model before reaching the final decision.

All bus operators

(E) Installation of on-vehicle safety devices

(i) Electronic stability control ("ESC")

19. All FB operators agreed to incorporate the ESC on all new buses to be procured. For new buses had been procured but not yet delivered, the FB operators would check with their respective bus manufacturers to see if it would be feasible to include such feature at this stage.

All FB operators

(ii) Speed limiter (with retarder) to cap the maximum speed within 70 km/hour when travelling downhill

20. All FB operators advised that it was technically feasible to install speed limiter (with retarder) on new buses. The speed limiter (with retarder) could cap the maximum speed within 70 km/hour when the bus was travelling downhill. For new buses which has been procured but not yet delivered, all FB operators would check with their respective bus manufacturers to see if it would be feasible to include

All FB operators

Action

such feature at this stage and advise TD of the result by April 2018.

(iii) Roll stability control (“RSC”)

21. The bus manufacturers advised that the ESC had already had the RSC function and could reduce the risk of a bus from rollover. All FB operators considered that as the newly procured buses would be installed with the ESC, the RSC function would be automatically included on new buses.

(iv) Speed control by Global Positioning Service (“GPS”) or geo-fencing

22. TD said that according to bus manufacturers’ view that while it would be technically feasible for installing a speed control by GPS (or geo-fencing) on the bus but it required further study on its effectiveness and practicability as a comprehensive hardware and software system is required to be developed. All FB operators considered that the effectiveness and reliability of the proposed device had yet to be proven. In addition, [REDACTED] pointed out that it might encourage bus [REDACTED]

[REDACTED] Hence, all FB operators considered it undesirable to pursue this device at this moment.

[Post-meeting notes: KMB/LW continues to keep track on the latest progress of geo-fencing with the bus manufacturers.]

(v) Speed display unit (“SDU”) in passenger compartment

23. Though it was advised that it would be technically feasible, all FB operators doubted the effectiveness of installation of SDU in enhancing driving safety. In addition, all FB operators considered that the proposed device might create argument and conflict between the bus captain and passengers about the travelling speed.

24. Upon the request from the FB operators, TD would provide analysis on involvement rate of public light buses with and without installation of the SDU for FB operators’ reference. TD

(vi) Collision prevention and lane keeping device

Action

25. All FB operators reported that they had tried the device a couple of years ago. [REDACTED]

[REDACTED]. KMB/LW opined that the results of the previous trial were not conclusive since the trial was not conducted on buses. [REDACTED]

26. It was noted that the technology of current version of the device was much enhanced. [REDACTED]

(vii) Driver monitoring device

27. Instead of putting collision prevention and lane keeping device on trial, KMB/LW has initiated to install the driver monitoring device on four buses. It was planned that the buses would be deployed for night routes or routes with relatively long journey distance. KMB/LW added that the trial was planned to last for about six months for collection of sufficient data and bus captains' opinion to assess the effectiveness before considering the way forward.

28. [REDACTED]

(iv) Preparation of a report for the Working Group

29. TD reminded the Members that the Working Group had been formed since mid-March 2018. It was expected that a report of the works of the Working Group would be submitted before mid-June 2018. The next meeting might be held to discuss the draft report. The Members would be informed of the meeting details once available.

Action**(v) A.O.B.**

30. KMB/LW advised that they had imminent need to increase the number of in-house driving instructors with driving instructors' licences to meet the training needs. KMB/LW asked if it would be possible to shorten the processing period of the application for examination of their driving instructor candidates and allow spare driving instructors trainees to attend the examinations for replacement in case of any drop-out. TD replied that the opinions on the arrangement of driving instructors test would be passed to relevant sections for consideration.

TD

[Post-meeting note: The matter was followed up after the meeting. KMB was satisfied with the arrangements.]

31. TD advised all FB operators that the Independent Review Committee ("IRC") requested TD to submit samples of data received from the FB operators for ensuring the compliance of the FB operators with safety-related requirements and service pledges. TD added that the identifiers of the samples containing sensitive information would be redacted. TD would provide all FB operators with the samples that would be submitted to IRC. All FB operators had no objections to the arrangements.

TD

32. There being no other business, the meeting adjourned at 5.15 p.m..

[Blank Page]

**Working Group on
Enhancement of Safety of Franchised Buses**

**Notes of 2nd Meeting held on 23 April 2018 at 3.00 p.m.
at Room 4110B, 41/F, Immigration Tower, Wan Chai**

Present:

Convener

| | | |
|----|------------------|--|
| TD | Miss Rachel KWAN | Assistant Commissioner for Transport/Special Duties |
|----|------------------|--|

Member – TD

| | | |
|------|------------------|--|
| BRB | Ms. Amy LEE | Chief Transport Officer/Special Duties |
| | Mr. Albert HO | Chief Transport Officer/Bus and Railway 6 |
| VSSD | Mr. William SHUM | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standards |
| | Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| | Mr. Danny CHAN | Engineer/Bus Safety |
| RSSD | Mr. Tony YAU | Chief Engineer/Road Safety and Standards |
| | Mr. Gary WONG | Senior Engineer/Road Safety 2 |

Member – Bus Operators

| | | |
|----------|-----------------------|---|
| KMB/LW | Mr. Godwin SO | General Manager, Corporate Planning & Business Development |
| | Mr. LEUNG Kin Wang | Operations Director |
| | Mr. James WONG | Head of Training and Quality Assurance Department |
| CTB/NWFB | Mr. William CHUNG | Head of Operations |
| | Mr. Paul LI | Head of Engineering |
| | Mr. Vincent FUNG | Senior Operations Manager |
| NLB | Mr. Benny CHAN | Deputy General Manager |
| | Mr. Patrick YEUNG | Head of Service and Training |
| | Mr. Billy WONG | Assistant Manager, Operation Support |

Note-taker

TD

Miss Natalie YU

Senior Transport Officer/Railway 6

Action**DISCUSSION****(A) Confirmation of notes of meeting**

The Convener acknowledged that the draft notes of the last meeting had been circulated to Members and comments from Members had been incorporated in the notes of meeting. The Meeting confirmed the notes of the last meeting.

(B) Matters arising from the last meeting**(i) Internal guidelines on taking disciplinary actions**

2. In response to TD's enquiries on the internal guidelines on taking disciplinary actions, all franchised bus ("FB") operators advised that they had not laid down hard and fast rules or internal guidelines on the circumstances that specific disciplinary actions would be taken against the bus captains with improper driving behavior. The disciplinary action to be taken would depend on the nature, seriousness, and persistency of the behaviour.

3. KMB/LW supplemented that follow up actions would be taken, including issuing of verbal advice or warning, written warning, or mandatory participation in ancillary training, etc.. CTB/NWFB and NLB advised that they had similar arrangements.

4. All FB operators said that they had their appeal mechanism. In case the subject bus captain was not convinced with the actions taken against him, he might make their appeal vide the appeal mechanism.

(ii) Correlation between the accident rate and bus captains' age as well as the full-time/ part-time bus captains

5. TD reminded CTB/NWFB and KMB/LW to submit their findings on the correlation between accident rate and bus captains' age for the past 3 years. CTB/NWFB reported that they had carried out

Action

the analysis in 2017 and it was found that no correlation between the accident rate and the bus captains' age in 2017 and agreed to submit the requisite information as soon as possible. KMB/LW reported that the analysis was close to final and would submit to TD in the next couple of days. KMB/LW pointed out that the bus captains' age might not be the sole contributing factor to traffic accident, road condition and bus captains' performance, which might be contributing to a traffic accident, should also be considered.

[Post-meeting notes: KMB/LW has submitted their findings on the correlation between the accident rate and bus captains' age from 2014 to 2017 on 25 April 2018.]

6. As for the correlation between the accident rate and the full-time / part-time bus captains, CTB/NWFB advised that the analysis was in progress and would provide to TD later.

(iii) Comparison of the in-house training with the training practice of bus captains in other places

7. In respect of making comparison of training practice of bus captains in other jurisdictions, KMB/LW suggested TD to carry out comparison with adjacent cities, such as Shenzhen and Macau, in view of costs and time incurred for obtaining the information from London and Singapore. TD noted KMB/LW's suggestions.

(C) Training for bus captains

(i) Formulation of a set of guidelines for training

8. Following the discussion in the Technical Meeting ("TM") on training arrangements for bus captains, TD proposed to formulate a set of Guidelines to provide a framework of the training to be provided by bus operators which would cover -

- structure of training (e.g. induction training (including classroom training and route training) for the new recruits, refresher training for the in-service bus captains, and bus route training, bus model training as well as ancillary training for in-service bus captains on a need basis);
- modules of the induction and refresher training with a range of relative weightings while the actual weighting of each module would be decided by the respective

Action

franchised bus operators to suit their operational needs;
and

- guiding principles on the need for bus captains to participate in the ancillary training.

All bus operators had no objection to being guided by a set of Guidelines with the above-mentioned outlines. TD advised that the draft Guidelines would be drawn up for all bus operators' comments by 11 May 2018.

TD

(ii) Internal monitoring and audit mechanism

9. As regards the monitoring on existing training assignment, CTB/NWFB advised that the training for bus captains would be assigned and monitored by different departments depending on the training purposes. The arrangement and record keeping of refresher training, route training and bus model training for in-service bus captains were managed by their respective Operations Department. As for ancillary training to rectify improper driving behaviour, their Service Quality Department would inform the Operations Department and the Operation Training Department to coordinate the arrangements. For new recruits, their Human Resources Department would arrange induction training with the Operation Training Department.

10. KMB/LW advised that their Human Resources Department would nominate new recruits to attend induction training. Respective depots would be responsible for their in-service bus captains' route training, refresher training and ancillary training for bus captains who have left the driving post for more than 30 days while the Training Department would notify respective depots upon identifying the need for the refresher and ancillary training from training record. The Performance Management Section would nominate the ancillary training for bus captains with improper driving behaviours. KMB/LW also advised that training arrangement for bus captains was also scrutinized by their Internal and Audit Section.

11. NLB advised that their Operations Department was responsible for training arrangements for bus captains. NLB indicated that they would set up a Training Department to keep training record of staff properly.

12. All FB operators agreed that there should be an internal monitoring and audit mechanism on the training arrangement so that

training situation of bus captains could be traced and abnormalities could be detected and reported to senior management and the Board of their respective company. All FB operators would advise of TD of their own internal monitoring and audit mechanism in the next meeting.

Action

All FB operators

(iii) Improvement of their training to bus captains

13. It was learnt from the TM that KMB/LW had arranged “buddy bus captain”, who were usually experienced bus captains, to accompany new recruits on their first day of providing passenger service. Drawing reference of the current practice of KMB/LW, CTB/NWFB and NLB expressed that they would actively consider arranging “buddy bus captain” to accompany new bus captain on his first or first few passenger-carrying rides.

CTB/NWFB and NLB

14. To follow up on TD’s suggestion raised in the TM for enhancing the training for the part-time bus captains, CTB/NWFB replied that they would consider lengthening the duration of induction course for new part-time bus captains (currently 2 days), and providing refresher training for in-service part-time bus captains, and requiring the in-service bus captains to undergo driving assessment (and ancillary training, if necessary) if they had been away from driving duties for more than 30 days.

CTB/NWFB

15. TD was advised in the TM that unlike other FB operators, CTB/NWFB provided behind-the-wheel route training for in-service bus captains for complicated routes only (not all routes). Upon TD’s request to consider strengthening the new route training for in-service bus captains, CTB/NWFB indicated that they would consider arranging the in-service bus captains to have behind-the-wheel practice on all routes new to them after riding as a passenger on an in-service bus before actually taking up the driving duties for passenger-carrying service.

CTB/NWFB

(D) Installation of seat belts for all passenger seats

16. After checking with the bus manufacturers on the feasibility for installation of seat belts for all passenger seats for new buses, all FB operators advised that it was technically feasible to install seat belts for all passenger seats for new buses to be procured. KMB/LW supplemented that it would cost about an additional of £5,000 for each double-decker to install seat belts for all passenger seats. All bus operators agreed to incorporate this requirement in their new

All bus operators

single-decked buses and double-decked buses to be procured.

Action

17. For new buses which had been procured but not yet delivered, KMB/LW said they would request the bus manufacturers to install seat belts for all passenger seats if it would be feasible to include such requirement. KMB/LW advised that 145 new buses to be delivered before September 2018 could be able to install with seat belts for all passenger seats. CTB/NWFB and NLB would advise TD by end of April 2018 if the bus manufacturer could install seat belts for all passenger seats for new buses being manufacture.

CTB/NWFB
and NLB

18. For existing buses, CTB/NWFB and KMB/LW advised that the technical feasibility for installation of the seat belts on all passenger seats at upper deck was still uncertain. Even if it proved to be technical feasible, the subject still needed further deliberation taking into consideration the financial implications and impacts on bus operation (i.e. the availability of bus) due to the time required for the substantial modification of buses. TD encouraged all FB operators to continue to study the technical feasibility of retrofitting seat belts on all passenger seats on each bus model before reaching the final decision.

All bus
operators

(E) Installation of on-vehicle safety devices

(i) Electronic stability control ("ESC")

19. All FB operators agreed to incorporate the ESC on all new buses to be procured. For new buses had been procured but not yet delivered, the FB operators would check with their respective bus manufacturers to see if it would be feasible to include such feature at this stage. CTB/NWFB and KMB/LW added that, subject to the costs involved, they would consider retrofit ESC on existing buses if it was technically feasible.

All FB
operators

(ii) Speed limiter (with retarder) to cap the maximum speed within 70 km/hour when travelling downhill

20. All FB operators advised that it was technically feasible to install speed limiter (with retarder) on new buses. The speed limiter (with retarder) could cap the maximum speed within 70 km/hour when the bus was travelling downhill. For new buses which has been procured but not yet delivered, all FB operators would check with their respective bus manufacturers to see if it would be feasible to include

All FB
operators

Action

such feature at this stage and advise TD of the result by April 2018.

(iii) Roll stability control (“RSC”)

21. The bus manufacturers advised that the ESC had already had the RSC function and could reduce the risk of a bus from rollover. All FB operators considered that as the newly procured buses would be installed with the ESC, the RSC function would be automatically included on new buses.

(iv) Speed control by Global Positioning Service (“GPS”) or geo-fencing

22. TD said that according to bus manufacturers’ view that while it would be technically feasible for installing a speed control by GPS (or geo-fencing) on the bus but it required further study on its effectiveness and practicability as a comprehensive hardware and software system is required to be developed. All FB operators considered that the effectiveness and reliability of the proposed device had yet to be proven. In addition, CTB/NWFB pointed out that it might encourage bus captains to rely on this device and to drive at critical speed (i.e. the speed limits set in the geo-fencing system) but not according to the actual road and traffic conditions as well as weather situations. Hence, all FB operators considered it undesirable to pursue this device at this moment.

[Post-meeting notes: KMB/LW continues to keep track on the latest progress of geo-fencing with the bus manufacturers.]

(v) Speed display unit (“SDU”) in passenger compartment

23. Though it was advised that it would be technically feasible, all FB operators doubted the effectiveness of installation of SDU in enhancing driving safety. In addition, all FB operators considered that the proposed device might create argument and conflict between the bus captain and passengers about the travelling speed.

24. Upon the request from the FB operators, TD would provide analysis on involvement rate of public light buses with and without installation of the SDU for FB operators’ reference.

TD

(vi) Collision prevention and lane keeping device

Action

25. All FB operators reported that they had tried the device a couple of years ago. CTB/NWFB and NLB advised that they had tried the device on their buses while KMB/LW put the device on trial on private cars. CTB/NWFB pointed out that the device, which was supplied by a third party provider (not a bus manufacturer), would only be able to give alerts to remind bus captains. However, frequent alerts were given especially on routes operating in the city centre where frequent weaving of buses and insufficient clearance with the vehicle in front were common. This created nuisance to bus captains and bus captains tended to ignore the alerts. KMB/LW opined that the results of the previous trial were not conclusive since the trial was not conducted on buses. NLB added that the feedback from bus captains who had participated in the previous trial was not positive.

26. It was noted that the technology of current version of the device was much enhanced. CTB/NWFB pointed out that the current version would be able to provide to control room the real time data of buses. CTB/NWFB has undertaken to carry out another trial.

(vii) Driver monitoring device

27. Instead of putting collision prevention and lane keeping device on trial, KMB/LW has initiated to install the driver monitoring device on four buses. It was planned that the buses would be deployed for night routes or routes with relatively long journey distance. KMB/LW added that the trial was planned to last for about six months for collection of sufficient data and bus captains' opinion to assess the effectiveness before considering the way forward.

28. CTB/NWFB considered that the device would involve the use of camera shooting on bus captains' face, they would take the acceptability of bus captains into the account before putting the device on trial.

(iv) Preparation of a report for the Working Group

29. TD reminded the Members that the Working Group had been formed since mid-March 2018. It was expected that a report of the works of the Working Group would be submitted before mid-June 2018. The next meeting might be held to discuss the draft report. The Members would be informed of the meeting details once available.

(v) **A.O.B.****Action**

30. KMB/LW advised that they had imminent need to increase the number of in-house driving instructors with driving instructors' licences to meet the training needs. KMB/LW asked if it would be possible to shorten the processing period of the application for examination of their driving instructor candidates and allow spare driving instructors trainees to attend the examinations for replacement in case of any drop-out. TD replied that the opinions on the arrangement of driving instructors test would be passed to relevant sections for consideration.

TD

[Post-meeting note: The matter was followed up after the meeting. KMB was satisfied with the arrangements.]

31. TD advised all FB operators that the Independent Review Committee ("IRC") requested TD to submit samples of data received from the FB operators for ensuring the compliance of the FB operators with safety-related requirements and service pledges. TD added that the identifiers of the samples containing sensitive information would be redacted. TD would provide all FB operators with the samples that would be submitted to IRC. All FB operators had no objections to the arrangements.

TD

32. There being no other business, the meeting adjourned at 5.15 p.m..

**Working Group on
Enhancement of Safety of Franchised Buses**

**Notes of 3rd Meeting held on 21 June 2018 at 2.00 p.m.
at Room 4110A, 41/E, Immigration Tower, Wan Chai**

Present:

Convener

| | | |
|----|-----------------|---|
| TD | Ms. Macella LEE | Deputy Commissioner for Transport/Transport Services and Management |
|----|-----------------|---|

Members – TD

| | | |
|------|------------------|---|
| ALB | Mr. YK CHAN | Assistant Commissioner for Transport /Administration and Licensing |
| | Mr. William SHUM | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standard |
| | Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| | Mr. Danny CHAN | Engineer/Bus Safety |
| BRB | Mr. Patrick WONG | Assistant Commissioner for Transport /Bus and Railway |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |
| RSSD | Mr. Tony YAU | Chief Engineer/Road Safety and Standards |
| | Mr. Gary WONG | Senior Engineer/Road Safety 2 |

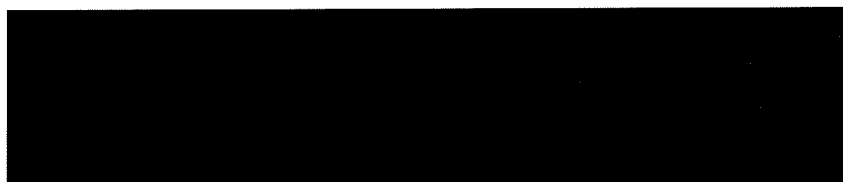
Members – Bus Operators

| | | |
|--------|-----------------------|---|
| KMB/LW | Mr. Godwin SO | General Manager, Corporate Planning & Business Development |
| | Mr. LEUNG Kin Wang | Operations Director |
| | Mr. James WONG | Head of Training and Quality Assurance Department |

CTB/NWFB



NLB

Note-taker

TD

Miss Natalie YU

Senior Transport Officer/Railway 6

ActionDISCUSSION**(A) Confirmation of notes of meeting**

The Convener advised that the revised draft notes of the last meeting had been circulated to Members incorporating comments from Members. As Members did not have further amendments, the Meeting confirmed the notes of the last meeting.

(B) Progress of the discussions of the following items discussed in respective technical meetings and proposed way forward**(i) Training arrangements for bus captains**

2. A set of guidelines (which was subsequently turned into a practice note) on training arrangements for the bus captains were fully deliberated in the previous working group meetings and agreed at the technical group meeting on 4 June. Having regard to the large number of bus captains of KMB/LW, there would be a need to avoid bunching in bus captains for refresher training, the proposed refresher course would be implemented by phases with full implementation in three-year's time in accordance with the requirement. The Meeting agreed that to start implementing their training with reference to the practice note by phases starting from October 2018. The TD also reminded that, as agreed at the last technical meeting, all franchised bus ("FB") operators should submit their internal monitoring and audit mechanism by end of June or early July 2018.

All FB operators

(Post-meeting note : The TD circulated the agreed Practice Note on Training Framework for Franchised Bus Captains at **Annex A** to all FB operator for implementation on 29 June 2018.)

3. In addition to the training courses, the TD explored with all FB operators on any other alternative training measures with an aim to

enhance bus captains' training on driving such as driving simulators internet training, and contracting out bus captains' training.

Action

4.

[REDACTED] KMB/LW replied that they had deployed driving simulators from 2007 to 2015, and opinion from their senior driving instructors that simulator training was not an essential element and could be replaced by more on-road training, and most of the users of their simulators reflected that they felt dizzy after using the driving simulator. Taking this opinion into the account, KMB/LW indicated that they have conducted more on-road training instead of deploying driving simulator from 2015.

5.

[REDACTED] The TD welcomed the initiative and suggested other FB operators to explore the use of virtual reality simulator as appropriate.

All FB operators

6. As for internet training, KMB/LW currently incorporated internet training as a part of their induction course. [REDACTED]

[REDACTED] The TD encouraged all FB operators to make use of intranet as a training channel to deliver safety awareness messages to bus captains.

All FB operators

7.

[REDACTED] That said, they would continue to encourage their bus captains to join the road safety seminars organized by the TD. [REDACTED]

8. The Meeting also noted that the FB operators had an on-going practice to put up notices and posters in order to keep up bus captains' safety awareness. All FB operators were encouraged to continue the practice to enhance safety awareness of the bus captains.

All FB operators

Action**(ii) Installation of in-vehicle safety device**

9. With the help of a summary table at **Annex B**, the meeting discussed the feasibility and desirability of installing seat belts on all passenger seats and other in-vehicle safety devices on FBs was tabled to facilitate members' discussion. The main points raised at the meeting were set out below.

(a) General

10. The Meeting had discussed and reached an agreed views that that in order to enable the FB operators to step up their management and control of their bus fleet, and reduce the potential risks arising from human errors or effect of careless / dangerous driving behaviour, any new on-vehicle safety technology which can assist the FB operators and drivers to enhance safety should be actively explored. Generally, the FB operators agreed to explore sources of supply of the appropriate safety devices/technology and launch trials with a view to establish the technical and operational feasibility of such technology. Without appropriate trials, it was difficult to prove to the travelling public the technical feasibility or infeasibility in adopting the new technology. The Meeting well noted that extended application of certain technologies/devices to part of whole bus fleet had to be very carefully studied having regard to their technical and operational feasibility, cost-effectiveness, as well as commercial viability.

(b) Bus monitoring and control system ("BMCS")

11. In view of the latest technology development in bus fleet management system and black box with functions on real time fleet supervision, estimated time of bus arrival or departure, bus speed recording, GPS location recording, etc., the TD proposed that a BMCS, an integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology, should be considered, developed or deployed by all FB operators, and suggested all FB operators to carry out trials on the BMCS by phases.

12. Upon the FB operators' enquiry, the TD clarified that Phase I trial aimed to conduct trial on BMCS with positioning function, operational information (such as vehicle speed, brake status, deceleration, etc.) monitoring function and geo-fencing technology for fleet management to achieve detection of over speeding and provide real time alert to the bus captains. Subject to the successful

development of the Phase 1 trial and successful development of speed limiter with variable speed limiting function, Phase 2 trial would be conducted with the BMCS developed in Phase 1 incorporated with additional application of speed limiter of enhanced design being developed by bus manufacturers for compliance with respective speed limits of different road sections.

13. [REDACTED]

The TD noted and replied that reference would be made to other international standards and bus manufacturers' proposals to approve the relevant device. The TD added that without knowing how the device would work during trials with details, it was difficult to evaluate the implications, and hence the TD stressed that the purpose of conducting trials was to find out the technical feasibility and implications.

14. After deliberation, all FB operators were committed to embark Phase 1 trial by end of 2018 on selected routes. Subject to the trial results of Phase 1 and the development of speed limiter with variable speed limiting function to achieve 2-speed limiting function, all FB operators agreed to set the working target for embarking the Phase 2 trial within 2019.

15. The Meeting concluded that it would be a medium-term goal for FB operators to develop a comprehensive BMCS with the objective to enable all FB operators to monitor their bus fleet closely and to take appropriate management action against over bus captains' malpractice, such as speeding.

(b) Electronic stability control ("ESC") and retarders for capping the maximum speed of the speed limiter on downhill ("speed limiting retarder")

16. Having deliberated in the previous working group meetings and technical meetings, the Meeting noted that all FB operators agreed that all new buses would be incorporated with ESC and speed limiting retarder. All FB operators also agreed to retrofit ESC and speed limiting retarder on the existing buses¹, subject to the satisfactory development results of these devices for retro-fitting on the existing bus models, the retrofitting proposal from the bus manufacturers and

Action

All FB operators

All FB operators

¹ Existing buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI.

Action

the commercial viability. The Meeting hence recommended that all FB operators should liaise with and commission the bus manufacturers on the development of these devices with the working target to commence the trials/tests of the devices and retrofitting work in about 12 to 18 months, that is within 2019.

(c) Collision alert/ lane keeping devices

17. [REDACTED] The Meeting also noted that these five buses would also be deployed to operate revenue trips. [REDACTED]

18. The TD pointed out that there were similar devices available in the market. [REDACTED]

(d) Driving monitoring device

19. The Meeting noted that KMB/LW had already embarked a trial on driving monitoring device on a couple of buses. The TD requested KMB/LW to share the results of the trial with the TD and other FB operators. [REDACTED]

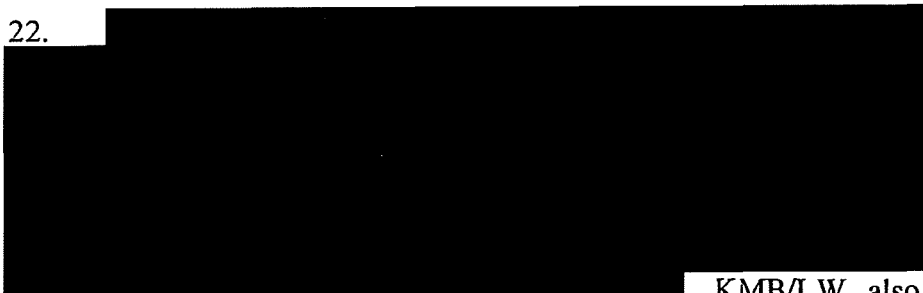
(e) Speed display unit ("SDU") in passenger compartment

20. In order to provide visual display of the current speed of FBs to the passengers on-board, the proposal for installation SDUs in passenger compartments of FBs was explored.

21. The TD advised all FB operators on the analysis of the public light buses' ("PLBs") involvement rates upon the launch of the speed display device ("SDD") installation since 2002. The statistics analysis was based on limited available information as the installation date of the SDD in each PLB was not available as there was no legal requirement for PLB operators to report this to the TD. Limited by the availability of data, and considering the possibility that other factors might have an effect on the number of accidents involving PLBs during the period, conducting any statistical analysis for

drawing a conclusive statement merely on the effect of the installation of SDUs on the accident rate was not conceivable.

22.

 KMB/LW also expressed that the SDU would intensify the conflict between bus captains and passengers and that there was no correlation between SDU and accident in the case of PLBs with reference to the information orally provided by the TD in the Meeting. Therefore, all FB operators had reservations to install SDU on FBs.

23. After some discussions, the Meeting generally concluded that the SDU might not be conducive to safety if passengers were playing an active monitoring role. The FB operators should focus on the development and trials of the BMCS instead, which was a more effective total solution for monitoring the bus operation, managing and control their fleet as well as speeding and other driving mis-behavior of bus captains.

24. The TD, however, added that, as the Government, it was also necessary for the TD to gather views of the driver unions and the public/passengers as a whole. The TD, in conjunction with the bus companies, should examine how best we could deliver the above views to the public.

The TD and
all FB
operators

(iii) Installation of seat belts on all seats other than exposed seats

25. The Meeting noted that it was technically feasible to supply all new buses with seat belts for all passenger seats conforming to relevant international standards and all FB operators committed that all new FBs would be incorporated with seat belts on all passengers seats.

26. As for existing buses¹, the Meeting noted that retrofitting seat belts on all passenger seats of the upper deck of some existing double-deck bus models should be feasible. KMB/LW advised that they would retrofit seat belts on all passenger seats of the upper deck or deploy buses with seat belts on all passenger seats on routes which

Action

serve long haul passengers or are operated on expressways with limited boarding or alighting activities at the enroute stops.

[Post-meeting note : KMB/LW advised that there would be about 400 new buses with seat belts on all passengers seats by mid-2019. KMB/LW would deploy these buses to the required routes. Retrofitting seat belts to existing buses would depend on the actual situation/ requirement at that moment.]

27. In the light of KMB/LW's initiative, the Meeting had discussed and come to the views that having regard to the technical feasibility in retrofitting seat belts on existing buses; operation of FBs in Hong Kong which were mostly deployed on urban routes with standing passengers; and the costs and downtime incurred to retrofit seat belts on all existing buses, as well as overseas experiences, that there were insufficient justifications to make it a mandatory requirement for all buses to be fitted with seat belts on all passenger seats. Nevertheless, Members reckoned that as in the case of exposed seats and in bus compartment with no standees allowed, seat belts might give extra protection to seated passengers to prevent passengers from falling out from these seats.

28. 

29. 

30. The Meeting agreed that it was worth exploring in more details in conjunction with the major bus manufacturers to ascertain the technical feasibility of retrofitting seat belts on the upper deck of different bus models, the operational and capacity constraints, and the timetable for completing the retrofitting works on all suitable buses for

deployment on suitable routes, as well as the commercial viability

Action

31. In this connection, the TD requested all FB operators to estimate the number of long-haul bus routes operating via expressway with relatively fewer bus stops and the corresponding number of buses involved, and provide the information to the TD for reference the soonest possible.

All FB operators

32. The TD would revise the summary table reflecting the discussions and provide to all FB operators for further comments.

[Post-meeting notes: The TD revised the summary table and sent to all FB operators twice for further comments on 22 June and 5 July 2018. The summary table with consolidation with FB operators' comments (Annex C) was emailed to all FB operators on 9 July 2018 for record.]

(C) ISO 39001 - Road Traffic Safety Management System

33. The Meeting noted that each bus operator had its own system in safety management.

34. The Meeting noted that there was an international management standard for Road Traffic Safety, i.e. ISO 39001 - Road Traffic Safety Management System that was launched in 2014. While all FB operators advised that they had developed their own management systems which enabled them to manage FB operations in a safe manner, all FB operators were request to make comparison between their own management system and the ISO 39001 or other similar management systems in the market, and to report findings, including but not limited to, organization and details of the existing safety management systems in their respective companies with improvement measures, if any, by end of October 2018.

All FB operators

(D) Preparation of a report for the Working Group

35. The Convener thanked the members' valuable contributions

to the discussions at working group meetings and technical meetings, and advised the members that the TD would start preparing the report with recommendations based on the information deliberated at the meetings. All FB operators were invited to note that the Working Group recommendations would be submitted to Legislative Council Panel on Transport and the information could be accessed by the members of public.

(E) Any other business

36. There being no other business, the meeting adjourned at 4.30 p.m.

Action

Practice Note on Training Framework for Franchised Bus Captains

Introduction

This paper sets out the “Practice Note on Training Framework for Franchised Bus Captains” (the “Practice Note”) to be promulgated for reference and adoption by the franchised bus operators.

Objectives of the Practice Note

2. With a view to enhancing safety delivery in the franchised bus services, the Transport Department (“TD”) has, after reviewing the franchised bus operators’ training arrangements for bus captains, sought to lay down a set of industry-wide standard practices in respect of the franchised bus captains’ training framework, including the basic requirements on modules, duration and weighting, so as to provide a common basis for internal monitoring and audit within individual franchised bus companies.

3. The objective of the Practice Note is to align the training arrangements of different franchised bus operators and to lay down a common framework of the training system for their bus captains. Given that different bus companies have different bus networks operating in different operating environment, it is necessary for them to make specific training programmes in order to suit their respective operational needs on the basis of the common standard as set out in this Practice Note. The TD will review the Practice Note with the franchised bus operators on a regular basis, in order to strive for the best standard practices to cater for the ever-changing operating needs and public expectations on safe franchised bus services.

The Practice Note

(A) Structure of training system

4. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of Courses | Minimum Requirement | Target Trainees ⁽²⁾ | Timing |
|---|--|--|---|
| (a) Induction course | 1 day (Full-time) & 0.5 day (Part-time) | New recruits | Before providing passenger service |
| (i) Classroom training | | | |
| (ii) Behind-the-wheel road training | <u>Full-time bus captains</u> 20 hours ⁽¹⁾ <u>Part-time bus captains</u> 16 hours ⁽¹⁾ | | |
| (b) Refresher course | 0.5 day | In-service bus captains | Once in every three years |
| (c) New bus route training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (d) New bus type (model with new driving features) training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (e) Remedial training | 1 day | In-service bus captains with improper driving behavior or attitude | As and when required |

Notes :

(1) After the behind-the-wheel road training, the bus captains will be subject to internal driving assessment. The bus captains must pass the internal driving assessment before they are deployed on revenue trips.

(2) Applicable to full-time and part-time bus captains.

(B) Modules for Induction and Refresher Courses

5. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course (Classroom and Behind-the-wheel Road Training ⁽³⁾) | Weightings in refresher course (Classroom) |
|---|--|---|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

Notes :

(3) While behind-the-wheel road training provided during induction course enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it should also cover the contents of the modules to be delivered in a practical way with on-the-ground experiences.

(C) Remedial Training

6. Remedial training should be provided to those bus captains in the following categories :-

- (a) with improper driving behaviour repeatedly detected from black box data or other sources like plain-cloth inspections;
- (b) having involved in serious traffic accidents;
- (c) having persistently committed the same traffic offence; or
- (d) having reached a certain driving offence points.

(D) Internal Monitoring and Audit Mechanism by Franchised Bus Operators


7. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :

- (a) To monitor the compliance of this Practice Note;
- (b) To develop key indicators on the effectiveness of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
- (c) In the light of the findings of (b), to review and determine appropriate actions or measures.

8. The management of franchised bus operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Boards of Directors in respect of the findings on matters in para. 7 above.




Transport Department
June 2018

**Discussion on the Feasibility and Desirability of
Installing Seat Belts on All Passenger Seats and Other On-vehicle Safety Devices on Franchised Buses
(as at 21 June 2018)**


| Proposal | WG's Recommendations | Target Timeframe |
|---|---|--|
| <p>(1) Bus monitoring & control system (BMCS) [An integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology]</p> <ul style="list-style-type: none"> ● <u>Phase 1</u> BMCS with positioning function, operational information monitoring function and geo-fencing technology for fleet management ● <u>Phase 2</u> BMCS with full functions | <ul style="list-style-type: none"> ● KMB/LW were conducting trial with a bus manufacturer to test the speed limiting by GPS ● All FB operators would develop this technology for their bus fleet monitoring & speed control system ● Phase 1 trial will include 2 routes. | <ul style="list-style-type: none"> ● Phase 1 trial to be embarked by end 2018 ● Phase 2 trial to be embarked within 2019 |
| <p>(2) Electronic stability control ("ESC") and Roll stability control ("RSC")</p> | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● All FB operators agreed that all new buses will be incorporated with ESC <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● Subject to the development result of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation on all buses | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivery from Jan 2019 ●  <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● To complete the retrofitting within 3 years |

¹ Existing Buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI

| Proposal | WG's Recommendations | Target Timeframe |
|--|--|---|
| (3) Capping the maximum speed at 70 km/hour on downhill by the speed limiter | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● FB operators agreed that all new buses will be incorporated with this device. <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● Subject to the development result of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation. | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivery from Jan 2019 ● [REDACTED] ● [REDACTED] <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● To complete the retrofitting within [x] years |
| (4) Collision prevention and lane keeping devices | <ul style="list-style-type: none"> ● [REDACTED] ● KMB/LW will explore similar devices from different suppliers and embark on a trial. | <ul style="list-style-type: none"> ● To embark the trial by end 2018. |
| (5) Driver monitoring device | <ul style="list-style-type: none"> ● KMB/LW will embark a trial on this device. ● [REDACTED] | <ul style="list-style-type: none"> ● To embark the trial in late June 2018. ● [REDACTED] |
| (6) Speed display unit ("SDU") in passenger | Subject to consultation, all FB operators are | <ul style="list-style-type: none"> ● To complete the installation within [x] years |

| Proposal | WG's Recommendations | Target Timeframe |
|--|---|---|
| compartment | required to install the SDU for all buses | |
| (7) Seat belts for all passenger seats | <p><u>New Buses</u> All FB operators agreed that all new buses will be incorporated with seat belts.</p> <p><u>Existing Buses¹</u> KMB/LW will retrofit seat belts phase by phase for specific routes</p>  | <p><u>New Buses</u></p> <ul style="list-style-type: none"> • KMB/LW : with buses delivery from Jul 2018 •  •  <p><u>Existing Buses¹</u></p> |

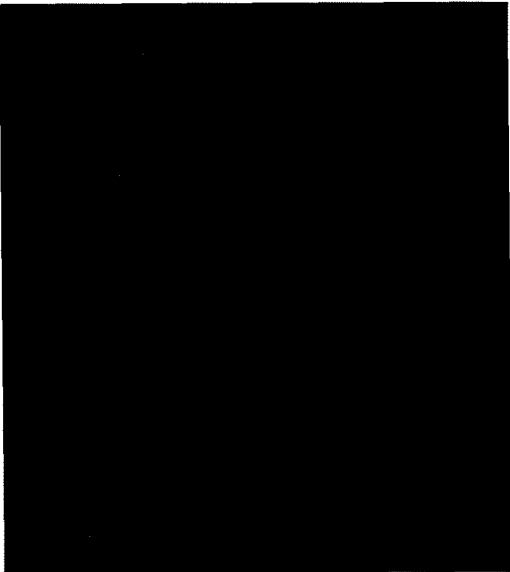
Recommendations of
Installing Seat Belts on All Passenger Seats and Other On-vehicle Safety Devices and Technologies on Franchised Buses
(as at 9 July 2018)

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|--|---|
| <p>(1) Bus monitoring & control system (BMCS) An integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology</p> <ul style="list-style-type: none"> ● <u>Phase 1</u> BMCS with positioning function, operational information (such as vehicle speed, brake status, deceleration, etc.) monitoring function and geo-fencing technology for fleet management to achieve detection of overspeeding and provide real time alert to the bus captains ● <u>Phase 2</u> BMCS to utilize the functions developed in Phase 1 together with the 2-speed active speed limiting function being developed by bus manufacturers to achieve automatic speed limiting functions (50km/hr or 70km/hr depending on the speed limit of road section) | <ul style="list-style-type: none"> ● KMB/LW were conducting trial with a bus manufacturer to test the speed limiting by GPS ● All FB operators would develop and trial the application of GPS technology for their bus fleet monitoring & speed control system ● Phase 1 trial on the application of GPS will include at least 2 routes for each FB operator. | <ul style="list-style-type: none"> ● Phase 1 trial to be embarked by end 2018 ● Phase 2 trial to be embarked within 2019, subject to the satisfactory trial result of Phase 1 and the satisfactory development of device with variable speed limiting function to achieve 2-speed limiting functions. |
| <p>(2) Electronic stability control ("ESC") and Roll stability control ("RSC")</p> | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● All FB operators agreed that all new double-deck buses will be incorporated with ESC | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivered from Jan 2019 ●  |

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|--|--|---|
| | <p><u>Existing Buses</u>¹</p> <ul style="list-style-type: none"> Subject to the satisfactory development result and the commercial viability of the device for the existing double-deck bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation on all double-deck buses | <ul style="list-style-type: none"> [REDACTED] |
| (3) Capping the maximum speed at 70 km/hour on downhill by the speed limiter | <p><u>New Buses</u></p> <ul style="list-style-type: none"> FB operators agreed that all new buses will be incorporated with this device. <p><u>Existing Buses</u>¹</p> <ul style="list-style-type: none"> Subject to the satisfactory development result and the commercial viability of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation. | <p><u>New Buses</u></p> <ul style="list-style-type: none"> KMB/LW : with buses delivered from Jan 2019 [REDACTED] [REDACTED] |
| (4) Collision alert/ lane keeping devices | <ul style="list-style-type: none"> [REDACTED] | <ul style="list-style-type: none"> To embark the trial by end 2018. |

¹ Existing Buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI buses

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|--|--|
| | <ul style="list-style-type: none"> KMB/LW and NLB will explore similar devices from different suppliers and embark on a trial. | |
| (5) Driver monitoring device | <ul style="list-style-type: none"> KMB/LW will embark a trial on this device on 4 buses. [REDACTED] | <ul style="list-style-type: none"> To embark the trial in Q3 2018. [REDACTED] |
| (6) Speed display unit ("SDU") in passenger compartment | Though all FB operators did not agree to install SDU, TD requested all FB operators to consider installing the SDU for all buses and to consult with the unions. | |
| (7) Seat belts for all passenger seats | <p><u>New Buses</u></p> <ul style="list-style-type: none"> All FB operators agreed that all new buses will be incorporated with seat belts. <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> KMB/LW will retrofit seat belts on upper deck passenger seats only or deploy buses with seat belts on all passenger seats on routes which serve long haul passengers or are operated on expressways with limited boarding or | <p><u>New Buses</u></p> <ul style="list-style-type: none"> KMB/LW : with buses delivery from Jul 2018 [REDACTED] [REDACTED] <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> All FB operators will provide the estimated no. of buses involved, cost implication and timeframe for retrofit |

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|--|------------------|
| | <p>alighting activities at the enroute stops.</p> <ul style="list-style-type: none">  All bus operators will provide the estimated no. of buses involved in bus routes serving long haul passengers, or operating on expressways with limited boarding or alighting activities at the enroute stops, cost implication and timeframe for the retrofitting seat belts on all upper deck seats. | |

**Working Group on
Enhancement of Safety of Franchised Buses**

**Notes of 3rd Meeting held on 21 June 2018 at 2.00 p.m.
at Room 4110A, 41/F, Immigration Tower, Wan Chai**

Present:

Convener

| | | |
|----|-----------------|---|
| TD | Ms. Macella LEE | Deputy Commissioner for Transport/Transport Services and Management |
|----|-----------------|---|

Members – TD

| | | |
|------|------------------|---|
| ALB | Mr. YK CHAN | Assistant Commissioner for Transport /Administration and Licensing |
| | Mr. William SHUM | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standard |
| | Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| | Mr. Danny CHAN | Engineer/Bus Safety |
| BRB | Mr. Patrick WONG | Assistant Commissioner for Transport /Bus and Railway |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |
| RSSD | Mr. Tony YAU | Chief Engineer/Road Safety and Standards |
| | Mr. Gary WONG | Senior Engineer/Road Safety 2 |

Members – Bus Operators

| | | |
|----------|-----------------------|---|
| KMB/LW | Mr. Godwin SO | General Manager, Corporate Planning & Business Development |
| | Mr. LEUNG Kin Wang | Operations Director |
| | Mr. James WONG | Head of Training and Quality Assurance Department |
| CTB/NWFB | Mr. William CHUNG | Head of Operations |
| | Mr. Paul LI | Head of Engineering |
| | Mr. Vincent FUNG | Senior Operations Manager |

| | | |
|-----|-------------------|--------------------------------------|
| NLB | Mr. Timothy WONG | Director |
| | Mr. Patrick YEUNG | Head of Service and Training |
| | Mr. Billy WONG | Assistant Manager, Operation Support |

Note-taker

| | | |
|----|-----------------|------------------------------------|
| TD | Miss Natalie YU | Senior Transport Officer/Railway 6 |
|----|-----------------|------------------------------------|

Action

DISCUSSION

(A) Confirmation of notes of meeting

The Convener advised that the revised draft notes of the last meeting had been circulated to Members incorporating comments from Members. As Members did not have further amendments, the Meeting confirmed the notes of the last meeting.

(B) Progress of the discussions of the following items discussed in respective technical meetings and proposed way forward

(i) Training arrangements for bus captains

2. A set of guidelines (which was subsequently turned into a practice note) on training arrangements for the bus captains were fully deliberated in the previous working group meetings and agreed at the technical group meeting on 4 June. Having regard to the large number of bus captains of KMB/LW, there would be a need to avoid bunching in bus captains for refresher training, the proposed refresher course would be implemented by phases with full implementation in three-year's time in accordance with the requirement. The Meeting agreed that to start implementing their training with reference to the practice note by phases starting from October 2018. The TD also reminded that, as agreed at the last technical meeting, all franchised bus ("FB") operators should submit their internal monitoring and audit mechanism by end of June or early July 2018.

All FB
operators

(Post-meeting note : The TD circulated the agreed Practice Note on Training Framework for Franchised Bus Captains at **Annex A** to all FB operator for implementation on 29 June 2018.)

3. In addition to the training courses, the TD explored with all FB operators on any other alternative training measures with an aim to

enhance bus captains' training on driving such as driving simulators internet training, and contracting out bus captains' training.

Action

4. Upon TD's enquiry on the application of driving simulator as part of their training, CTB/NWFB said that they learnt that simulator was deployed for driving training in Singapore. KMB/LW replied that they had deployed driving simulators from 2007 to 2015, and opinion from their senior driving instructors that simulator training was not an essential element and could be replaced by more on-road training, and most of the users of their simulators reflected that they felt dizzy after using the driving simulator. Taking this opinion into the account, KMB/LW indicated that they have conducted more on-road training instead of deploying driving simulator from 2015.

5. Provided that the cost for virtual reality simulator was relatively low and it also allowed higher flexibility compared to the traditional simulator, NLB said that they planned to explore the use of virtual reality simulator for bus captains to enhance their ability to handle emergency situations that might be encountered during bus operations. The TD welcomed the initiative and suggested other FB operators to explore the use of virtual reality simulator as appropriate.

All FB
operators

6. As for internet training, KMB/LW currently incorporated internet training as a part of their induction course. CTB/NWFB said that they uploaded training videos onto the intranet while NLB said that they disseminated messages to bus captains directly by use of instant message app. The TD encouraged all FB operators to make use of intranet as a training channel to deliver safety awareness messages to bus captains.

All FB
operators

7. The Meeting noted that CTB/NWFB and KMB/LW delivered their bus captain training courses through in-house instructors, and had no plan to outsource their trainings to other institutions. That said, they would continue to encourage their bus captains to join the road safety seminars organized by the TD. NLB supplemented that they had once engaged an external organization, viz. Institute of Advanced Motorists, for delivering safety talks/seminars to their bus captains, but such engagement had stopped as the company had been developing their own in-house training arrangement.

8. The Meeting also noted that the FB operators had an on-going practice to put up notices and posters in order to keep up bus captains' safety awareness. All FB operators were encouraged to continue the practice to enhance safety awareness of the bus captains.

All FB
operators

Action**(ii) Installation of in-vehicle safety device**

9. With the help of a summary table at **Annex B**, the meeting discussed the feasibility and desirability of installing seat belts on all passenger seats and other in-vehicle safety devices on FBs was tabled to facilitate members' discussion. The main points raised at the meeting were set out below.

(a) General

10. The Meeting had discussed and reached an agreed views that that in order to enable the FB operators to step up their management and control of their bus fleet, and reduce the potential risks arising from human errors or effect of careless / dangerous driving behaviour, any new on-vehicle safety technology which can assist the FB operators and drivers to enhance safety should be actively explored. Generally, the FB operators agreed to explore sources of supply of the appropriate safety devices/technology and launch trials with a view to establish the technical and operational feasibility of such technology. Without appropriate trials, it was difficult to prove to the travelling public the technical feasibility or infeasibility in adopting the new technology. The Meeting well noted that extended application of certain technologies/devices to part of whole bus fleet had to be very carefully studied having regard to their technical and operational feasibility, cost-effectiveness, as well as commercial viability.

(b) Bus monitoring and control system ("BMCS")

11. In view of the latest technology development in bus fleet management system and black box with functions on real time fleet supervision, estimated time of bus arrival or departure, bus speed recording, GPS location recording, etc., the TD proposed that a BMCS, an integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology, should be considered, developed or deployed by all FB operators, and suggested all FB operators to carry out trials on the BMCS by phases.

12. Upon the FB operators' enquiry, the TD clarified that Phase 1 trial aimed to conduct trial on BMCS with positioning function, operational information (such as vehicle speed, brake status, deceleration, etc.) monitoring function and geo-fencing technology for fleet management to achieve detection of over speeding and provide real time alert to the bus captains. Subject to the successful

Action

development of the Phase 1 trial and successful development of speed limiter with variable speed limiting function, Phase 2 trial would be conducted with the BMCS developed in Phase 1 incorporated with additional application of speed limiter of enhanced design being developed by bus manufacturers for compliance with respective speed limits of different road sections.

13. CTB/NWFB raised concerns on the legal implication when the automatic speed limiting function involving the application of braking system or other speed reduction device. The TD noted and replied that reference would be made to other international standards and bus manufacturers' proposals to approve the relevant device. The TD added that without knowing how the device would work during trials with details, it was difficult to evaluate the implications, and hence the TD stressed that the purpose of conducting trials was to find out the technical feasibility and implications.

14. After deliberation, all FB operators were committed to embark Phase 1 trial by end of 2018 on selected routes. Subject to the trial results of Phase 1 and the development of speed limiter with variable speed limiting function to achieve 2-speed limiting function, all FB operators agreed to set the working target for embarking the Phase 2 trial within 2019.

All FB
operators

15. The Meeting concluded that it would be a medium-term goal for FB operators to develop a comprehensive BMCS with the objective to enable all FB operators to monitor their bus fleet closely and to take appropriate management action against over bus captains' malpractice, such as speeding.

(b) Electronic stability control ("ESC") and retarders for capping the maximum speed of the speed limiter on downhill ("speed limiting retarder")

16. Having deliberated in the previous working group meetings and technical meetings, the Meeting noted that all FB operators agreed that all new buses would be incorporated with ESC and speed limiting retarder. All FB operators also agreed to retrofit ESC and speed limiting retarder on the existing buses¹, subject to the satisfactory development results of these devices for retro-fitting on the existing bus models, the retrofitting proposal from the bus manufacturers and

All FB
operators

¹ Existing buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI.

the commercial viability. The Meeting hence recommended that all FB operators should liaise with and commission the bus manufacturers on the development of these devices with the working target to commence the trials/tests of the devices and retrofitting work in about 12 to 18 months, that is within 2019.

Action

(c) Collision alert/ lane keeping devices

17. With regard to the installation of collision alert/ lane keeping devices, CTB/NWFB said that they would trial a device of this function in five buses for training and assessment purposes. The Meeting also noted that these five buses would also be deployed to operate revenue trips. The TD requested CTB/NWFB to share with the TD and other FB operators on the results of the trial in due course.

CTB/NWFB

18. The TD pointed out that there were similar devices available in the market. KMB/LW and NLB agreed to explore similar devices from different suppliers and embark a trial, if feasible.

KMB/LW &
NLB

(d) Driving monitoring device

19. The Meeting noted that KMB/LW had already embarked a trial on driving monitoring device on a couple of buses. The TD requested KMB/LW to share the results of the trial with the TD and other FB operators. CTB/NWFB and NLB were also requested to explore similar devices from different suppliers and embark a trial, if feasible.

KMB/LW
CTB/NWFB
& NLB

(e) Speed display unit ("SDU") in passenger compartment

20. In order to provide visual display of the current speed of FBs to the passengers on-board, the proposal for installation SDUs in passenger compartments of FBs was explored.

21. The TD advised all FB operators on the analysis of the public light buses' ("PLBs") involvement rates upon the launch of the speed display device ("SDD") installation since 2002. The statistics analysis was based on limited available information as the installation date of the SDD in each PLB was not available as there was no legal requirement for PLB operators to report this to the TD. Limited by the availability of data, and considering the possibility that other factors might have an effect on the number of accidents involving PLBs during the period, conducting any statistical analysis for

Action

drawing a conclusive statement merely on the effect of the installation of SDDs on the accident rate was not conceivable.

22. CTB/NWFB and NLB expressed grave concern on installation of SDU with the consideration that it might generate conflicts between bus captains and passengers. NLB also considered that FBs, different from PLBs, had already been installed with other devices monitoring bus captains' driving behaviour. NLB also expressed that it would be a nuisance and complicate procedure to handle a complaint of bus captain's driving performance when passengers took a photo on the SDU showing an improper vehicle speed. KMB/LW also expressed that the SDU would intensify the conflict between bus captains and passengers and that there was no correlation between SDU and accident in the case of PLBs with reference to the information orally provided by the TD in the Meeting. Therefore, all FB operators had reservations to install SDU on FBs.

23. After some discussions, the Meeting generally concluded that the SDU might not be conducive to safety if passengers were playing an active monitoring role. The FB operators should focus on the development and trials of the BMCS instead, which was a more effective total solution for monitoring the bus operation, managing and control their fleet as well as speeding and other driving mis-behavior of bus captains.

24. The TD, however, added that, as the Government, it was also necessary for the TD to gather views of the driver unions and the public/passengers as a whole. The TD, in conjunction with the bus companies, should examine how best we could deliver the above views to the public.

The TD and
all FB
operators

(iii) Installation of seat belts on all seats other than exposed seats

25. The Meeting noted that it was technically feasible to supply all new buses with seat belts for all passenger seats conforming to relevant international standards and all FB operators committed that all new FBs would be incorporated with seat belts on all passengers seats.

26. As for existing buses¹, the Meeting noted that retrofitting seat belts on all passenger seats of the upper deck of some existing double-deck bus models should be feasible. KMB/LW advised that they would retrofit seat belts on all passenger seats of the upper deck or deploy buses with seat belts on all passenger seats on routes which

Action

serve long haul passengers or are operated on expressways with limited boarding or alighting activities at the enroute stops.

[Post-meeting note : KMB/LW advised that there would be about 400 new buses with seat belts on all passengers seats by mid-2019. KMB/LW would deploy these buses to the required routes. Retrofitting seat belts to existing buses would depend on the actual situation/ requirement at that moment.]

27. In the light of KMB/LW's initiative, the Meeting had discussed and come to the views that having regard to the technical feasibility in retrofitting seat belts on existing buses; operation of FBs in Hong Kong which were mostly deployed on urban routes with standing passengers; and the costs and downtime incurred to retrofit seat belts on all existing buses, as well as overseas experiences, that there were insufficient justifications to make it a mandatory requirement for all buses to be fitted with seat belts on all passenger seats. Nevertheless, Members reckoned that as in the case of exposed seats and in bus compartment with no standees allowed, seat belts might give extra protection to seated passengers to prevent passengers from falling out from these seats.

28. In this regard, CTB/NWFB was requested to consider retrofitting seat belts on all passenger seats on the upper deck for the buses operating selected bus routes for long haul passengers or operating on expressways with limited boarding and alighting activities along the routes. CTB/NWFB indicated that it would be difficult for their companies to allocate their buses to solely operate specific routes as their buses would serve a number of routes in a day under their existing operations. In addition, CTB/NWFB observed that very few passengers would make use of seat belts, it would not be financially viable to retrofit existing buses with seat belts on all passenger seats. CTB/NWFB requested the Government to fund the retrofit of seat belts to existing buses if that was what the government wanted.

29. NLB said they had approximate 35 double deckers and would consider retrofitting seat belts, subject to the technical and operational feasibility and commercial viability.

30. The Meeting agreed that it was worth exploring in more details in conjunction with the major bus manufacturers to ascertain the technical feasibility of retrofitting seat belts on the upper deck of different bus models, the operational and capacity constraints, and the timetable for completing the retrofitting works on all suitable buses for

deployment on suitable routes, as well as the commercial viability

Action

31. In this connection, the TD requested all FB operators to estimate the number of long-haul bus routes operating via expressway with relatively fewer bus stops and the corresponding number of buses involved, and provide the information to the TD for reference the soonest possible.

All FB
operators

(Post-meeting notes : CTB/NWFB and NLB provided the information on 26 June, while KMB provided the estimates on 5 July 2018.)

32. The TD would revise the summary table reflecting the discussions and provide to all FB operators for further comments.

[Post-meeting notes: The TD revised the summary table and sent to all FB operators twice for further comments on 22 June and 5 July 2018. The summary table with consolidation with FB operators' comments (**Annex C**) was emailed to all FB operators on 9 July 2018 for record.]

(C) ISO 39001 - Road Traffic Safety Management System

33. The Meeting noted that each bus operator had its own system in safety management. Upon the TD's enquiry to all FB operators on adaptation of any management system under international standards, CTB/NWFB replied that they did not obtain any management system accreditations under international standards. KMB/LW and NLB said that they obtained accreditations of ISO 9001, ISO 14001 and OHSAS 18001.

34. The Meeting noted that there was an international management standard for Road Traffic Safety, i.e. ISO 39001 - Road Traffic Safety Management System that was launched in 2014. While all FB operators advised that they had developed their own management systems which enabled them to manage FB operations in a safe manner, all FB operators were request to make comparison between their own management system and the ISO 39001 or other similar management systems in the market, and to report findings, including but not limited to, organization and details of the existing safety management systems in their respective companies with improvement measures, if any, by end of October 2018.

All FB
operators

(D) Preparation of a report for the Working Group

35. The Convener thanked the members' valuable contributions

to the discussions at working group meetings and technical meetings, and advised the members that the TD would start preparing the report with recommendations based on the information deliberated at the meetings. All FB operators were invited to note that the Working Group recommendations would be submitted to Legislative Council Panel on Transport and the information could be accessed by the members of public.

(E) Any other business

36. There being no other business, the meeting adjourned at 4.30 p.m.

Action

Practice Note on Training Framework for Franchised Bus Captains

Introduction

This paper sets out the “Practice Note on Training Framework for Franchised Bus Captains” (the “Practice Note”) to be promulgated for reference and adoption by the franchised bus operators.

Objectives of the Practice Note

2. With a view to enhancing safety delivery in the franchised bus services, the Transport Department (“TD”) has, after reviewing the franchised bus operators’ training arrangements for bus captains, sought to lay down a set of industry-wide standard practices in respect of the franchised bus captains’ **training framework**, including the basic requirements on modules, duration and weighting, so as to provide a common basis for internal monitoring and audit within individual franchised bus companies.

3. The objective of the Practice Note is to align the training arrangements of different franchised bus operators and to lay down a common framework of the training system for their bus captains. Given that different bus companies have different bus networks operating in different operating environment, it is necessary for them to make specific training programmes in order to suit their respective operational needs on the basis of the common standard as set out in this Practice Note. The TD will review the Practice Note with the franchised bus operators on a regular basis, in order to strive for the best standard practices to cater for the ever-changing operating needs and public expectations on safe franchised bus services.

The Practice Note

(A) Structure of training system

4. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of Courses | Minimum Requirement | Target Trainees ⁽²⁾ | Timing |
|---|--|--|---|
| (a) Induction course | 1 day (Full-time) & 0.5 day (Part-time) | New recruits | Before providing passenger service |
| (i) Classroom training | | | |
| (ii) Behind-the-wheel road training | <u>Full-time bus captains</u> 20 hours ⁽¹⁾ <u>Part-time bus captains</u> 16 hours ⁽¹⁾ | | |
| (b) Refresher course | 0.5 day | In-service bus captains | Once in every three years |
| (c) New bus route training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (d) New bus type (model with new driving features) training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (e) Remedial training | 1 day | In-service bus captains with improper driving behavior or attitude | As and when required |

Notes :

(1) After the behind-the-wheel road training, the bus captains will be subject to internal driving assessment. The bus captains must pass the internal driving assessment before they are deployed on revenue trips.

(2) Applicable to full-time and part-time bus captains.

(B) Modules for Induction and Refresher Courses

5. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course (Classroom and Behind-the-wheel Road Training ⁽³⁾) | Weightings in refresher course (Classroom) |
|---|--|---|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

Notes :

- (3) While behind-the-wheel road training provided during induction course enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it should also cover the contents of the modules to be delivered in a practical way with on-the-ground experiences.

(C) Remedial Training

6. Remedial training should be provided to those bus captains in the following categories :-

- (a) with improper driving behaviour repeatedly detected from black box data or other sources like plain-cloth inspections;
- (b) having involved in serious traffic accidents;
- (c) having persistently committed the same traffic offence; or
- (d) having reached a certain driving offence points.

(D) Internal Monitoring and Audit Mechanism by Franchised Bus Operators

7. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :

- (a) To monitor the compliance of this Practice Note;
- (b) To develop key indicators on the effectiveness of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
- (c) In the light of the findings of (b), to review and determine appropriate actions or measures.

8. The management of franchised bus operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Boards of Directors in respect of the findings on matters in para. 7 above.

Transport Department
June 2018

**Discussion on the Feasibility and Desirability of
Installing Seat Belts on All Passenger Seats and Other On-vehicle Safety Devices on Franchised Buses
(as at 21 June 2018)**

| Proposal | WG's Recommendations | Target Timeframe |
|---|---|--|
| <p>(1) Bus monitoring & control system (BMCS) [An integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology]</p> <ul style="list-style-type: none"> ● <u>Phase 1</u> BMCS with positioning function, operational information monitoring function and geo-fencing technology for fleet management ● <u>Phase 2</u> BMCS with full functions | <ul style="list-style-type: none"> ● KMB/LW were conducting trial with a bus manufacturer to test the speed limiting by GPS ● All FB operators would develop this technology for their bus fleet monitoring & speed control system ● Phase 1 trial will include 2 routes. | <ul style="list-style-type: none"> ● Phase 1 trial to be embarked by end 2018 ● Phase 2 trial to be embarked within 2019 |
| <p>(2) Electronic stability control ("ESC") and Roll stability control ("RSC")</p> | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● All FB operators agreed that all new buses will be incorporated with ESC <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● Subject to the development result of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation on all buses | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivery from Jan 2019 ● CTB/NWFB : with buses delivery from Jun 2019 ● NLB : new bus orders to be placed in future <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● To complete the retrofitting within <input checked="" type="checkbox"/> years |

¹ Existing Buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI

| Proposal | WG's Recommendations | Target Timeframe |
|--|--|--|
| (3) Capping the maximum speed at 70 km/hour on downhill by the speed limiter | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● FB operators agreed that all new buses will be incorporated with this device. <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● Subject to the development result of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation. | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivery from Jan 2019 ● CTB/NWFB : with buses delivery from Jun 2019 ● NLB : new bus orders to be placed in future <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● To complete the retrofitting within [x] years |
| (4) Collision prevention and lane keeping devices | <ul style="list-style-type: none"> ● CTB/NWFB will install this device in their training buses for training purpose and will conduct a trial on service trips in due course. ● KMB/LW will explore similar devices from different suppliers and embark on a trial. | <ul style="list-style-type: none"> ● To embark the trial by end 2018. |
| (5) Driver monitoring device | <ul style="list-style-type: none"> ● KMB/LW will embark a trial on this device. ● CTB/NWFB will explore similar devices from different suppliers and embark on a trial. | <ul style="list-style-type: none"> ● To embark the trial in late June 2018. ● CTB/NWFB to embark the trial by end 2018. |
| (6) Speed display unit ("SDU") in passenger | Subject to consultation, all FB operators are | <ul style="list-style-type: none"> ● To complete the installation within [x] years |

| Proposal | WG's Recommendations | Target Timeframe |
|--|---|--|
| compartment | required to install the SDU for all buses | |
| (7) Seat belts for all passenger seats | <p><u>New Buses</u> All FB operators agreed that all new buses will be incorporated with seat belts.</p> <p><u>Existing Buses</u>¹ KMB/LW will retrofit seat belts phase by phase for specific routes</p> <p>CTB/NWFB's views ?</p> <p>NLB's views ?</p> | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivery from Jul 2018 ● CTB/NWFB : with buses delivery from Jun 2019 ● NLB : new bus orders to be placed in future <p><u>Existing Buses</u>¹</p> |

Recommendations of
Installing Seat Belts on All Passenger Seats and Other On-vehicle Safety Devices and Technologies on Franchised Buses
(as at 9 July 2018)

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|--|---|
| <p>(1) Bus monitoring & control system (BMCS) An integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology</p> <ul style="list-style-type: none"> ● <u>Phase 1</u> BMCS with positioning function, operational information (such as vehicle speed, brake status, deceleration, etc.) monitoring function and geo-fencing technology for fleet management to achieve detection of overspeeding and provide real time alert to the bus captains ● <u>Phase 2</u> BMCS to utilize the functions developed in Phase 1 together with the 2-speed active speed limiting function being developed by bus manufacturers to achieve automatic speed limiting functions (50km/hr or 70km/hr depending on the speed limit of road section) | <ul style="list-style-type: none"> ● KMB/LW were conducting trial with a bus manufacturer to test the speed limiting by GPS ● All FB operators would develop and trial the application of GPS technology for their bus fleet monitoring & speed control system ● Phase 1 trial on the application of GPS will include at least 2 routes for each FB operator. | <ul style="list-style-type: none"> ● Phase 1 trial to be embarked by end 2018 ● Phase 2 trial to be embarked within 2019, subject to the satisfactory trial result of Phase 1 and the satisfactory development of device with variable speed limiting function to achieve 2-speed limiting functions. |
| <p>(2) Electronic stability control ("ESC") and Roll stability control ("RSC")</p> | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● All FB operators agreed that all new double-deck buses will be incorporated with ESC | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivered from Jan 2019 ● CTB/NWFB : with buses delivered from Jun 2019 |

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|--|--|--|
| | <p><u>Existing Buses</u>¹</p> <ul style="list-style-type: none"> ● Subject to the satisfactory development result and the commercial viability of the device for the existing double-deck bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation on all double-deck buses | <ul style="list-style-type: none"> ● NLB : new bus orders to be placed in future |
| (3) Capping the maximum speed at 70 km/hour on downhill by the speed limiter | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● FB operators agreed that all new buses will be incorporated with this device. <p><u>Existing Buses</u>¹</p> <ul style="list-style-type: none"> ● Subject to the satisfactory development result and the commercial viability of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation. | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivered from Jan 2019 ● CTB/NWFB : with buses delivery from Jun 2019 ● NLB : new bus orders to be placed in future |
| (4) Collision alert/ lane keeping devices | <ul style="list-style-type: none"> ● CTB/NWFB will install this device in 5 buses for training and assessment purposes. These buses will also be deployed on service trips. | <ul style="list-style-type: none"> ● To embark the trial by end 2018. |

¹ Existing Buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI buses

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|--|---|
| | <ul style="list-style-type: none"> KMB/LW and NLB will explore similar devices from different suppliers and embark on a trial. | |
| (5) Driver monitoring device | <ul style="list-style-type: none"> KMB/LW will embark a trial on this device on 4 buses. CTB/NWFB and NLB will explore similar devices from different suppliers and embark on a trial. | <ul style="list-style-type: none"> To embark the trial in Q3 2018. CTB/NWFB to embark the trial by end 2018. |
| (6) Speed display unit ("SDU") in passenger compartment | Though all FB operators did not agree to install SDU, TD requested all FB operators to consider installing the SDU for all buses and to consult with the unions. | |
| (7) Seat belts for all passenger seats | <p><u>New Buses</u></p> <ul style="list-style-type: none"> All FB operators agreed that all new buses will be incorporated with seat belts. <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> KMB/LW will retrofit seat belts on upper deck passenger seats only or deploy buses with seat belts on all passenger seats on routes which serve long haul passengers or are operated on expressways with limited boarding or | <p><u>New Buses</u></p> <ul style="list-style-type: none"> KMB/LW : with buses delivery from Jul 2018 CTB/NWFB : with buses delivery from Jun 2019 NLB : new bus orders to be placed in future <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> All FB operators will provide the estimated no. of buses involved, cost implication and timeframe for retrofit |

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|---|------------------|
| | <p>alighting activities at the enroute stops.</p> <ul style="list-style-type: none"> ● Though CTB/NWFB did not agree to retrofitting as it is expected that few passengers will make use of the seat belts and it will not be financially viable to retrofit existing buses unless it is funded by the Government, TD is of the view to retrofit the seat belts for bus routes serving long haul passengers, or operating on expressways with limited boarding or alighting activities at the enroute stops where passengers tend to use them. ● All bus operators will provide the estimated no. of buses involved in bus routes serving long haul passengers, or operating on expressways with limited boarding or alighting activities at the enroute stops, cost implication and timeframe for the retrofitting seat belts on all upper deck seats. | |

[Blank Page]

[Draft]
Technical Meeting on
Training Arrangements for Bus Captains

Notes of Second Meeting held on 4 June 2018 at 2.30 p.m.
at Room 4110B, 41/F, Immigration Tower, Wan Chai

Present:

Convener

| | | |
|----|-----------------|---|
| TD | Ms. Macella LEE | Deputy Commissioner for Transport/ Transport Services and Management |
|----|-----------------|---|

Member – TD

| | | |
|-----|------------------|--|
| BRB | Mr. Patrick WONG | Assistant Commissioner for Transport/ Bus and Railway |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |

Member – Franchised Bus Operators

| | | |
|--------|----------------|--|
| KMB/LW | Mr. James WONG | Head of Training and Quality Assurance Department |
|--------|----------------|--|

CTB/NWFB



NLB



Note-taker

| | | |
|----|-----------------|------------------------------------|
| TD | Miss Natalie YU | Senior Transport Officer/Railway 6 |
|----|-----------------|------------------------------------|

ActionDISCUSSION**(A) Confirmation of notes of meeting**

The Convener acknowledged that the draft notes of the last meeting had been circulated to Members and comments from Members had been incorporated in the notes of meeting. With no further comments, the Meeting confirmed the notes of the last meeting.

(B) Matters arising from the last meeting“Buddy Bus Captain” scheme

2. [REDACTED]

[REDACTED] On that day, the experienced bus captain will give advice and assistance to new bus captains on their future daily works such as driving trips about routes that the bus captains will be driven on, sign on / sign off procedures, meal break arrangement and introduce the new bus captains to the regulators etc. [REDACTED]

3. [REDACTED] KMB/LW clarified that their experienced bus captains assigned in the “Buddy Bus Captain” scheme would only provide tips/reminders to the new bus captains when necessary during the revenue trips.

4. [REDACTED]

5. The TD concluded that the scheme was beneficial to new bus captains and encouraged all FB operators to implement similar scheme in a way that would be able to meet the requirements of their daily

Action

operations.

Bus Captains Incurring DOPs

6.

d
t
t

KMB/LW

replied that they had recently included a condition in the employment contracts of new bus captains on disclosure of DOPs information. For bus captains under previous employment contracts, KMB/LW supplemented that they would have to discuss with bus captain's unions on reporting of DOPs before making decision on the way forward.

7. Noting that DOPs serve as a good indicator of the driving performance of a driver, the TD encouraged all FB operators to consider incorporating a clause on disclosure of DOPs regularly into their bus captains' employment contracts and/or as one of the staff regulation in order to monitor the driving competence of their in-service bus captains.

All FB
operators

Accident rate and Driver Age

8.

(C) Guidelines on Training for FB Captains

9. The draft Guidelines on Training for Bus Captains ("the Guidelines") (**Annex A**) was discussed. The TD advised that the Guidelines aimed at aligning the training system of different FB operators and institutionalizing the monitoring of FB companies' training arrangements for bus captains.

10. Taking the operational needs of different FB operators into

Action

the account, all FB operators agreed that the number of training day(s) would serve the basis of the training duration, except the on-the-wheel road training under the induction course. After deliberation, the Meeting considered that the instructor to trainee ratio varied among FB operators would affect the training intensity received by the bus captains, and agreed that number of training hours would serve the basis for the on-the-wheel road training of the induction course.

11. The Meeting noted that the objective of the refresher course was to share important and current job-related information with the in-service bus captains. [REDACTED]

[REDACTED] The TD noted that the arrangements of refresher course provided by the FB operators varied. With the objective of the Guidelines to align the training system of different franchised bus operators, the TD proposed that the minimum duration of the refresher course would be half day.

12. In the last technical meeting on training arrangements for bus captains, the TD learnt from the FB operators that a bus captain might not be required to attend separate refresher course once every three years if he/she had attended other training(s) within a three-year period under the existing practice. In light that the nature of refresher training was different from other trainings and with a view to ensure bus captains receiving important and current job-related information through attending refresher course regularly, the TD was of the view that refresher course should be provided to all serving bus captains in every three years, regardless whether or not other trainings on routes, bus models or driving improvement, were provided during the period. KMB/LW had reservation to arrange all serving bus captains to attend refresher course in addition to bus route training, bus model training or ancillary trainings. In consideration of limited number of bus captains available for provision of bus services, KMB/LW expected that bus service might be affected. KMB/LW said that they would try to explore the feasibility of delivering refresher course on-site and would advise TD on the arrangement of refresher course.

KMB/LW

[Post-meeting note: Having regard to the large number of bus captains, the need to avoid bunching in bus captains for refresher training, KMB/LW proposed on 15 June 2018 to implement the proposed refresher training by phases with full implementation in three-year's time in accordance with the requirement stipulated in the proposed Guidelines. [REDACTED]

Action

13. In connection with ancillary training for improper driving behaviour, the Meeting agreed that the minimum duration would be one day for both full-time and part-time bus captains. The Meeting noted that FB operators provided the ancillary training by different means with the common objective to rectify the improper driving behaviour of bus captains. Taking the above into the account, the Meeting agreed that FB operators could continue adopting the means of delivering the ancillary training which were considered effective. To more accurate to reflect the purpose to rectify the improper driving behaviour or attitude during the training, the TD proposed to rename it as remedial training. All FB operators welcomed the proposal.

14. Regarding the bus captains who had been abstained from driving duties for more than 30 days, all FB operators advised that driving assessments for these bus captains would be conducted in order to ensure bus captains' driving competence before assigning the bus captains to provide FB service, and the Meeting agreed that to take out these bus captains from the targets of the remedial training. That said, the TD encouraged the FB operators to provide training for bus captains who have been abstained from driving duties for a long period of time when deemed necessary.

15. The TD advised that the draft Guidelines would be revised according to the meeting discussion and would circulate to the meeting members after the meeting. TD

(Post-meeting note : The revised draft Guidelines were circulated to the FB operators on 5 June 2018. FB operators provided further textual comments on the draft Guidelines, and the latest draft of the Guidelines was at **Annex B.**)

16. As a part of the Guidelines, all FB operators were requested to have an internal monitoring and audit mechanism with the objectives to (i) monitor the compliance of the Guidelines, (ii) develop key indicators on the effectiveness of the training system provided to bus captains, and (iii) review and determine appropriate actions or measures in light of the findings of the indicators. The TD pointed out that regular periodic reports (e.g. at least half-yearly) in respect of the findings should be submitted to their respective Boards of Directors with the purpose to allow the Government representatives in the Board to oversee the bus captains' training regularly. All FB operators were

All FB
operators

Action

requested to bring this up to their respective management on the requirements to develop an internal monitoring and audit mechanism with a view to submitting their internal monitoring and audit mechanism by end of June 2018 for record with the target effective date of the mechanism in the fourth quarter of 2018.

17. There being no other business, the meeting adjourned at 5:00 p.m..

DRAFT 2**Annex A****Guidelines on Training for Franchised Bus Captains****(A) Structure of training system**

1. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of courses | Minimum Duration | Target Trainees ⁽¹⁾ | Timing |
|---|---|--------------------------------|---|
| (a) Induction course | 1 day (Full-time) & 0.5 day (Part-time) | New recruits | Before providing passenger service |
| (i) Classroom training | | | |
| (ii) On-the-wheel route training | <u>Full-time bus captains</u> 5 – 15 days, subject to the 'instructor to trainee' ratio ⁽²⁾ <u>Part-time bus captains</u> 4 days at an 'instructor to trainee' ratio of 1:2 | | |
| (b) Refresher course (classroom training) | 1 day | In-service captains | Once in every three years |
| (c) New bus route training | On-the-wheel training before revenue trip | In-service captains | Before the bus captain is assigned to provide service |
| (d) New bus type (model with new driving features) training | On-the-wheel training before revenue trip | In-service captains | Before the bus captain is assigned to provide service |
| (e) Ancillary training | 1 day | In-service captains | As and when required |
| (i) On-the-wheel and classroom training for bus captains with improper driving behavior or attitude | | | |
| (ii) On-the-wheel training for bus captains have been abstained from driving duties for more than 30 consecutive days | 0.5 day | | |

Note (1) : Applicable to full-time and part-time bus captains.

Note (2) : The minimum training days for 'instructor to trainee' ratios of 1:2, 1:3, 1:4, and 1:5 will be 8, 10, 13 and 15 respectively. There is an exception for New Lantau Bus Co. Ltd. (NLB) whose minimum training days for its new full-time bus captains is 5 days at an 'instructor to trainee' ratio of 1:2, in the light of its much smaller and confined bus routeings and networks mostly within Lantau.

DRAFT 2**Annex A****(B) Modules for Induction and Refresher Courses**

2. During the induction course, both on-the-wheel route training and classroom training are provided. The following Modules are covered in both classroom and on-the-wheel route training. While route training enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it also covers the following modules in a practical ways with on-the-ground experiences. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course | Weightings in refresher course |
|---|--------------------------------|--------------------------------|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/ facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

(C) Ancillary Training requirements

3. The following bus captains should be refrained from delivering any driving duty until they have at least attended and completed the ancillary training satisfactorily :-
- (a) with improper driving behaviour detected from black box data or other sources like plain-cloth inspections, irrespective such driving behavior leads to incurrance of any driving offence points ("DOPs"); or
 - (b) having involved in serious accidents; or
 - (c) having persistently committed same traffic offence; or
 - (d) having reached a certain DOPs (say, 8 DOPs or above).

DRAFT 2**Annex A****(D) Internal Monitoring and Audit Mechanism by FB Operators**

4. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :
 - (a) To monitor the compliance of this Training Guidelines;
 - (b) To develop key indicators on the effective of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
 - (c) In the light of the findings of (b), to review and determine appropriate actions or measures.
5. The management of FB Operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Board of Directors in respect of the findings on matters in para. 4 above.

Transport Department

June 2018

DRAFT 4**Annex B****Guidelines on Training for Franchised Bus Captains****(A) Structure of training system**

1. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of Courses | Minimum Duration | Target Trainees ⁽²⁾ | Timing |
|---|--|--|---|
| (a) Induction course | 1 day (Full-time) & 0.5 day (Part-time) | New recruits | Before providing passenger service |
| (i) Classroom training | | | |
| (ii) Behind-the-wheel road training | <u>Full-time bus captains</u> 20 hours ⁽¹⁾ <u>Part-time bus captains</u> 16 hours ⁽¹⁾ | | |
| (b) Refresher course | 0.5 day | In-service bus captains | Once in every three years |
| (c) New bus route training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (d) New bus type (model with new driving features) training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (e) Remedial training | 1 day | In-service bus captains with improper driving behavior or attitude | As and when required |

Notes :

- (1) After the behind-the-wheel road training, the bus captains will be subject to internal driving assessment. The bus captains must pass the internal driving assessment before they are deployed on revenue trips.
- (2) Applicable to full-time and part-time bus captains.

DRAFT 4**Annex B****(B) Modules for Induction and Refresher Courses**

2. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course (Classroom and Behind-the-wheel Road Training ⁽³⁾) | Weightings in refresher course (Classroom) |
|---|---|--|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

Notes :

- (3) While behind-the-wheel road training provided during induction course enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it also covers the abovementioned modules in a practical ways with on-the-ground experiences.

(C) Remedial Training

3. The following bus captains should be required to attend and complete the remedial training :-
- (a) with improper driving behaviour repeatedly detected from black box data or other sources like plain-cloth inspections; or
 - (b) having involved in serious traffic accidents; or
 - (c) having persistently committed same traffic offence; or
 - (d) having reached a certain driving offence points ("DOPs") (say, 8 DOPs or above).

(D) Internal Monitoring and Audit Mechanism by Franchised Bus Operators

4. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :
 - (a) To monitor the compliance of this Training Guidelines;
 - (b) To develop key indicators on the effectiveness of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
 - (c) In the light of the findings of (b), to review and determine appropriate actions or measures.
5. The management of Franchised Bus Operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Boards of Directors in respect of the findings on matters in para. 4 above.

Transport Department
June 2018

[Draft]
Technical Meeting on
Training Arrangements for Bus Captains

Notes of Second Meeting held on 4 June 2018 at 2.30 p.m.
at Room 4110B, 41/F, Immigration Tower, Wan Chai

Present:

Convener

| | | |
|----|-----------------|---|
| TD | Ms. Macella LEE | Deputy Commissioner for Transport/ Transport Services and Management |
|----|-----------------|---|

Member – TD

| | | |
|-----|------------------|--|
| BRB | Mr. Patrick WONG | Assistant Commissioner for Transport/ Bus and Railway |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |

Member – Franchised Bus Operators

| | | |
|--------|----------------|--|
| KMB/LW | Mr. James WONG | Head of Training and Quality Assurance Department |
|--------|----------------|--|

| | | |
|----------|-------------------|-----------------------------|
| CTB/NWFB | Mr. William CHUNG | Head of Operations |
| | Mr. Vincent FUNG | Senior Operations Manager |
| | Mr. Ryan LO | Operations Training Manager |

| | | |
|-----|-----------------|------------------------------|
| NLB | Mr. Benny CHAN | Deputy General Manager |
| | Mr. Richard LEE | Manager, Training Department |

Note-taker

| | | |
|----|-----------------|------------------------------------|
| TD | Miss Natalie YU | Senior Transport Officer/Railway 6 |
|----|-----------------|------------------------------------|

Action**DISCUSSION****(A) Confirmation of notes of meeting**

The Convener acknowledged that the draft notes of the last meeting had been circulated to Members and comments from Members had been incorporated in the notes of meeting. With no further comments, the Meeting confirmed the notes of the last meeting.

(B) Matters arising from the last meeting**“Buddy Bus Captain” scheme**

2. Making reference to KMB’s “Buddy Bus Captain” scheme, CTB/NWFB advised that they started to arrange experienced bus captains to accompany new bus captains on their first day of work, after the induction training from mid-May 2018. CTB/NWFB further added that the bus captains would not be assigned any passenger-carrying service on the first day of work. On that day, the experienced bus captain will give advice and assistance to new bus captains on their future daily works such as driving trips about routes that the bus captains will be driven on, sign on / sign off procedures, meal break arrangement and introduce the new bus captains to the regulators etc. CTB/NWFB advised that as it was prohibited to talk to bus captains when the buses were moving, this might possibly induce passenger complaints if bus captains talked to another uniform staff when driving.

3. In response to CTB/NWFB’s concern, KMB/LW clarified that their experienced bus captains assigned in the “Buddy Bus Captain” scheme would only provide tips/reminders to the new bus captains when necessary during the revenue trips.

4. NLB said that they would introduce “大師兄計劃”, which their in-house instructors would be arranged to accompany new bus captains in their first and second revenue trips, the scheme was expected to be put into practice from the fourth quarter of 2018.

5. The TD concluded that he scheme was beneficial to new bus captains and encouraged all FB operators to implement similar scheme in a way that would be able to meet the requirements of their daily

Action

operations.

Bus Captains Incurring DOPs

6. In respect of the frequency in reporting of DOPs by bus captains, NLB reported that they requested the bus captains to declare their DOPs, be it incurred when performing driving duties or during their rest time, when they attended the refresher course. CTB/NWFB said that their bus captains were requested to report to the company whenever DOPs were incurred, and the requirement of such reporting was stipulated as a company rule in the staff handbook. KMB/LW replied that they had recently included a condition in the employment contracts of new bus captains on disclosure of DOPs information. For bus captains under previous employment contracts, KMB/LW supplemented that they would have to discuss with bus captain's unions on reporting of DOPs before making decision on the way forward.

7. Noting that DOPs serve as a good indicator of the driving performance of a driver, the TD encouraged all FB operators to consider incorporating a clause on disclosure of DOPs regularly into their bus captains' employment contracts and/or as one of the staff regulation in order to monitor the driving competence of their in-service bus captains.

All FB
operators

Accident rate and Driver Age

8. The Meeting noted that CTB/NWFB and KMB/LW submitted the statistics on the correlation between the accident rate and the bus captains' ages for the past three years, while CTB/NWFB also provided the analysis on the correlation between the accident rate and the types of bus captains from 2015 to 2017. CTB/NWFB and KMB/LW pointed out that there was no strong correlation between the accident rate and the bus captains' age or the types of bus captains.

(C) Guidelines on Training for FB Captains

9. The draft Guidelines on Training for Bus Captains ("the Guidelines") (**Annex A**) was discussed. The TD advised that the Guidelines aimed at aligning the training system of different FB operators and institutionalizing the monitoring of FB companies' training arrangements for bus captains.

10. Taking the operational needs of different FB operators into

Action

the account, all FB operators agreed that the number of training day(s) would serve the basis of the training duration, except the on-the-wheel road training under the induction course. After deliberation, the Meeting considered that the instructor to trainee ratio varied among FB operators would affect the training intensity received by the bus captains, and agreed that number of training hours would serve the basis for the on-the-wheel road training of the induction course.

11. The Meeting noted that the objective of the refresher course was to share important and current job-related information with the in-service bus captains. CTB/NWFB clarified that they delivered refresher course in two half days, instead of one full day as proposed in the Guideline. The TD noted that the arrangements of refresher course provided by the FB operators varied. With the objective of the Guidelines to align the training system of different franchised bus operators, the TD proposed that the minimum duration of the refresher course would be half day.

12. In the last technical meeting on training arrangements for bus captains, the TD learnt from the FB operators that a bus captain might not be required to attend separate refresher course once every three years if he/she had attended other training(s) within a three-year period under the existing practice. In light that the nature of refresher training was different from other trainings and with a view to ensure bus captains receiving important and current job-related information through attending refresher course regularly, the TD was of the view that refresher course should be provided to all serving bus captains in every three years, regardless whether or not other trainings on routes, bus models or driving improvement, were provided during the period. KMB/LW had reservation to arrange all serving bus captains to attend refresher course in addition to bus route training, bus model training or ancillary trainings. In consideration of limited number of bus captains available for provision of bus services, KMB/LW expected that bus service might be affected. KMB/LW said that they would try to explore the feasibility of delivering refresher course on-site and would advise TD on the arrangement of refresher course.

KMB/LW

[Post-meeting note: Having regard to the large number of bus captians, the need to avoid bunching in bus captains for refresher training, KMB/LW proposed on 15 June 2018 to implement the proposed refresher training by phases with full implementation in three-year's time in accordance with the requirement stipulated in the proposed Guidelines. CTB/NWFB and NLB indicated that they had no problem in implementing the refresher course as proposed in the

Action

Guidelines.]

13. In connection with ancillary training for improper driving behaviour, the Meeting agreed that the minimum duration would be one day for both full-time and part-time bus captains. The Meeting noted that FB operators provided the ancillary training by different means with the common objective to rectify the improper driving behaviour of bus captains. Taking the above into the account, the Meeting agreed that FB operators could continue adopting the means of delivering the ancillary training which were considered effective. To more accurate to reflect the purpose to rectify the improper driving behaviour or attitude during the training, the TD proposed to rename it as remedial training. All FB operators welcomed the proposal.

14. Regarding the bus captains who had been abstained from driving duties for more than 30 days, all FB operators advised that driving assessments for these bus captains would be conducted in order to ensure bus captains' driving competence before assigning the bus captains to provide FB service, and the Meeting agreed that to take out these bus captains from the targets of the remedial training. That said, the TD encouraged the FB operators to provide training for bus captains who have been abstained from driving duties for a long period of time when deemed necessary.

15. The TD advised that the draft Guidelines would be revised according to the meeting discussion and would circulate to the meeting members after the meeting. TD

(Post-meeting note : The revised draft Guidelines were circulated to the FB operators on 5 June 2018. FB operators provided further textual comments on the draft Guidelines, and the latest draft of the Guidelines was at **Annex B**.)

16. As a part of the Guidelines, all FB operators were requested to have an internal monitoring and audit mechanism with the objectives to (i) monitor the compliance of the Guidelines, (ii) develop key indicators on the effectiveness of the training system provided to bus captains, and (iii) review and determine appropriate actions or measures in light of the findings of the indicators. The TD pointed out that regular periodic reports (e.g. at least half-yearly) in respect of the findings should be submitted to their respective Boards of Directors with the purpose to allow the Government representatives in the Board to oversee the bus captains' training regularly. All FB operators were

All FB
operators

Action

requested to bring this up to their respective management on the requirements to develop an internal monitoring and audit mechanism with a view to submitting their internal monitoring and audit mechanism by end of June 2018 for record with the target effective date of the mechanism in the fourth quarter of 2018.

17. There being no other business, the meeting adjourned at 5:00 p.m..

Guidelines on Training for Franchised Bus Captains**(A) Structure of training system**

1. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of courses | Minimum Duration | Target Trainees ⁽¹⁾ | Timing |
|---|---|---------------------------------------|---|
| (a) Induction course | | New recruits | Before providing passenger service |
| (i) Classroom training | 1 day (Full-time) & 0.5 day (Part-time) | | |
| (ii) On-the-wheel route training | <u>Full-time bus captains</u> 5 – 15 days, subject to the ‘instructor to trainee’ ratio ⁽²⁾ <u>Part-time bus captains</u> 4 days at an ‘instructor to trainee’ ratio of 1:2 | | |
| (b) Refresher course (classroom training) | 1 day | In-service captains | Once in every three years |
| (c) New bus route training | On-the-wheel training before revenue trip | In-service captains | Before the bus captain is assigned to provide service |
| (d) New bus type (model with new driving features) training | On-the-wheel training before revenue trip | In-service captains | Before the bus captain is assigned to provide service |
| (e) Ancillary training | | In-service captains | As and when required |
| (i) On-the-wheel and classroom training for bus captains with improper driving behavior or attitude | 1 day | | |
| (ii) On-the-wheel training for bus captains have been abstained from driving duties for more than 30 consecutive days | 0.5 day | | |

Note (1) : Applicable to full-time and part-time bus captains.

Note (2) : The minimum training days for ‘instructor to trainee’ ratios of 1:2, 1:3, 1:4, and 1:5 will be 8, 10, 13 and 15 respectively. There is an exception for New Lantau Bus Co. Ltd. (NLB) whose minimum training days for its new full-time bus captains is 5 days at an ‘instructor to trainee’ ratio of 1:2, in the light of its much smaller and confined bus routeings and networks mostly within Lantau.

DRAFT 2**Annex A****(B) Modules for Induction and Refresher Courses**

2. During the induction course, both on-the-wheel route training and classroom training are provided. The following Modules are covered in both classroom and on-the-wheel route training. While route training enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it also covers the following modules in a practical ways with on-the-ground experiences. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course | Weightings in refresher course |
|---|--------------------------------|--------------------------------|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/ facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

(C) Ancillary Training requirements

3. The following bus captains should be refrained from delivering any driving duty until they have at least attended and completed the ancillary training satisfactorily :-
- (a) with improper driving behaviour detected from black box data or other sources like plain-cloth inspections, irrespective such driving behavior leads to incurrance of any driving offence points ("DOPs"); or
 - (b) having involved in serious accidents; or
 - (c) having persistently committed same traffic offence; or
 - (d) having reached a certain DOPs (say, 8 DOPs or above).

(D) Internal Monitoring and Audit Mechanism by FB Operators

4. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :
 - (a) To monitor the compliance of this Training Guidelines;
 - (b) To develop key indicators on the effective of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
 - (c) In the light of the findings of (b), to review and determine appropriate actions or measures.
5. The management of FB Operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Board of Directors in respect of the findings on matters in para. 4 above.

Transport Department

June 2018

Guidelines on Training for Franchised Bus Captains**(A) Structure of training system**

1. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of Courses | Minimum Duration | Target Trainees ⁽²⁾ | Timing |
|---|--|--|---|
| (a) Induction course | 1 day (Full-time) & 0.5 day (Part-time) | New recruits | Before providing passenger service |
| (i) Classroom training | | | |
| (ii) Behind-the-wheel road training | <u>Full-time bus captains</u> 20 hours ⁽¹⁾ | | |
| | <u>Part-time bus captains</u> 16 hours ⁽¹⁾ | | |
| (b) Refresher course | 0.5 day | In-service bus captains | Once in every three years |
| (c) New bus route training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (d) New bus type (model with new driving features) training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (e) Remedial training | 1 day | In-service bus captains with improper driving behavior or attitude | As and when required |

Notes :

(1) After the behind-the-wheel road training, the bus captains will be subject to internal driving assessment. The bus captains must pass the internal driving assessment before they are deployed on revenue trips.

(2) Applicable to full-time and part-time bus captains.

(B) Modules for Induction and Refresher Courses

2. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course (Classroom and Behind-the-wheel Road Training ⁽³⁾) | Weightings in refresher course (Classroom) |
|---|---|--|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

Notes :

- (3) While behind-the-wheel road training provided during induction course enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it also covers the abovementioned modules in a practical ways with on-the-ground experiences.

(C) Remedial Training

3. The following bus captains should be required to attend and complete the remedial training :-
- (a) with improper driving behaviour repeatedly detected from black box data or other sources like plain-cloth inspections; or
 - (b) having involved in serious traffic accidents; or
 - (c) having persistently committed same traffic offence; or
 - (d) having reached a certain driving offence points ("DOPs") (say, 8 DOPs or above).

(D) Internal Monitoring and Audit Mechanism by Franchised Bus Operators

4. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :
 - (a) To monitor the compliance of this Training Guidelines;
 - (b) To develop key indicators on the effectiveness of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
 - (c) In the light of the findings of (b), to review and determine appropriate actions or measures.
5. The management of Franchised Bus Operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Boards of Directors in respect of the findings on matters in para. 4 above.

Transport Department

June 2018

NOTES OF MEETING
1ST SUB-WORKING GROUP ON
ON-VEHICLE SAFETY DEVICES FOR FRANCHISED BUSES

Date : 27 March 2018

Time : 1000 hour

Venue : Room 4110B, 41/F.,
Immigration Tower, 7 Gloucester Road,
Wan Chi, H.K.

Present : TD Representatives
 Mr David Tsang – Chairman
 Mr Jimmy Yeung
 Mr William Shum
 Ms Amy Lee
 Mr Danny Chan – Secretary

KMB/LW Representatives
 Mr. K W Leung
 Mr Ivan Ho

CTB/NWFB Representatives
 Mr [REDACTED]
 Mr [REDACTED]

NLB Representatives
 Mr [REDACTED]
 Mr. [REDACTED]

Bus Suppliers Representatives
 ADL – [REDACTED]
 Volvo Bus – [REDACTED]
 Volvo Bus – [REDACTED]
 Regal (MAN) [REDACTED]
 Regal (MAN) [REDACTED]

ACTION**(a) Welcome Message**

The Chairman welcomed members from the franchised buses companies and bus manufacturers/dealers in participating this sub-working group. The Chairman briefed members the background for setting up this sub-working group and said that as agreed in the Working Group meeting held on 13 March 2018, technical meetings would also be held with members and/or with relevant concerned parties to discuss individual topic. The proposed on-vehicle safety hardware or technologies to be discussed in the meeting are :

- Electronic stability control
- Active / passive roll stability control
- Speed control aided by GPS / geo-fencing
- Speed limiter to cap maximum speed within 70 km/hour
- Safety seat belts for all passenger seats
- Speed display unit for passengers
- Collision prevention and lane keeping device
- Monitoring device on captain's condition e.g. dozing, drowsiness

(b) Discussion on various hardware and technologies of on-vehicle safety devices

The proposed on-vehicle safety devices were explored in the meeting and the initial technical assessments were summarized as follows :

- Electronic stability control (ESC)

Except one of the bus manufacturers which advised that their new and existing buses have already equipped with ESC, the other two bus manufacturers initially advised that their new buses could be equipped with ESC but not in existing buses.

All three bus manufacturers opined that these vehicle's stability systems, including RSC and ESC, could not replace the driver's responsibility for operating the vehicle in a safe manner. Speed and driving style should always be adapted to the current road, traffic and weather conditions. Posted speed limits should always be followed.

- Active / passive roll stability control

Except one of the bus manufacturers which advised that their new and existing buses have already equipped with RSC using active suspension system in rollover protection, the other two bus manufacturers initially replied that their new buses could be equipped with electronic stability control which already minimize the risk of losing control of vehicle.

For passive RSC with audio and visual alert to drivers, bus manufacturers and franchised bus companies opined that it would either be too late for the driver to respond or the alert become a nuisance to the driver if the system was not properly set.

They opined that even with RSC, it is still possible to lose control of the vehicle due to inappropriate driver input for the conditions (for example, aggressive driving can cause lose control of vehicle.). The vehicle can still roll over if the bus is being driven off-road and the body angle is too high. In addition, RSC cannot prevent rollovers caused by hitting a curb or sliding into a ditch.

As the interpretation on the function of the RSC among the three bus manufacturers are quite different, the three bus manufacturers are requested to further clarify with the function and availability of such device.

ADL, Volvo & MAN

- Speed control aided by GPS / geo-fencing

All three bus manufacturers opined that the technology is theoretically feasible. However, they have concerns on the accuracy of GPS signals which will be affected by the high rise buildings of Hong Kong.

The franchised bus companies also concern that bus driver will rely on the speed limit to control the bus rather than to the road and weather conditions.

- Speed limiter to cap maximum speed within 70 km/hour

All three bus manufacturers advised that it is technically feasible to engage retarder and/or service brake automatically to slow down the vehicle when the speed limit is over 70 km/hour during downhill situation.

- Safety Seat Belt for all Passenger Seats

As regards the installation of safety seat belt for all passenger seats, all three bus manufacturers have confirmed that it is technically feasible on new buses, upon the request of franchised bus companies, to supply seat belts for all passengers seats which comply with the said international standards.

As for retrofitting of safety seat belts to the passenger seats of the existing buses, they have concerns that the existing floor structure (especially lower deck) were not designed to comply with these international standards. In order to fulfil the requirements, reinforcement to the existing floor structure may be required and replacement of all existing passenger seats will be required with new passenger seats. Depending of the age of the bus, the bus manufacturers have initially confirmed that it is technically feasible to retrofit safety seat belts to all passenger seats of upper deck of some of the existing buses.

The three bus manufacturers have been requested to further study on whether there it is technically feasible to retrofit safety seat belt for existing buses and the recommended model or batch of buses which are currently used by franchised bus companies.

ADL, Volvo & MAN

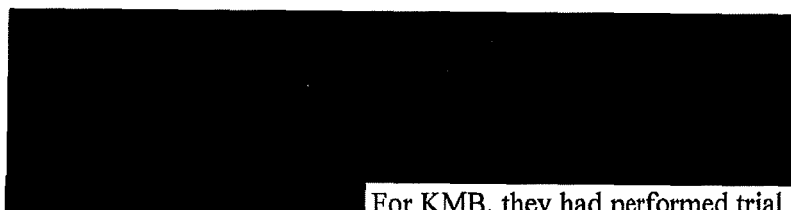
- Speed display unit for passengers

All three bus manufacturers confirmed that it is technically feasible to install additional speed display units for passengers.

The franchised bus companies have great reservation on the installation. They opined that such device will create conflict and argument on the vehicle speed between the bus driver and the passengers. As a result of that, it would impose additional pressure to driver and affect their driving safety. In addition, they also emphasized that speed limiters have been installed for all franchised buses to limit the maximum vehicle speed to 70 km/hour during normal driving situation and electronic tachograph ("black box") have been installed for all franchised buses so that bus companies could investigate any driver's mis-behavior including overspeeding, if necessary.

- Collision prevention and lane keeping device

All three bus manufacturers advised that there are in-built systems or third-party systems available for new and existing buses. However, they have reservation that for city operations like that in Hong Kong where road speed is below 70 km/hour and with dense traffic condition, it would frequently generate false alarm. As a result of that, drivers might get used to the false alarm and ignored the real driving situation.



For KMB, they had performed trial on their patrol vehicles and concluded that the system generated false alerts to the drivers.

- Monitoring device on captain's condition e.g. dozing, drowsiness

All three bus manufacturers advised that these systems are third-party system and standalone to the bus system. It is technically feasible to monitor the bus driver status but they also pose unnecessary nuisance (false alarms) to the drivers.

KMB advised that they would conduct a trial on a similar device for four buses in April 2018. KMB agreed to provide trial result to TD for reference.

KMB

To prepare for the further detailed discussion in the Main Working Group in mid-April 2018, the Chairman requested all bus manufacturers to further clarify with their homologation teams or body builders on the proposed on-vehicle safety devices and provide further details including technical limitations, pros and cons, cost implication, availability and applicability to model/batch of bus for TD further consideration.

ADL, Volvo & MAN

For franchised bus companies, they were also requested to provide their comments on the proposed on-vehicle safety devices.

(d) **AOB**

As regards the installation of demister or equivalent device (e.g. heated windscreen) to prevent fogging of driver windscreen, TD was of the view that demister was a safety device to ensure the driver has a clear view at any time. As such, TD requested all bus manufacturers and franchised bus companies should make sure all the newly delivered buses shall equipped with demister or equivalent device.

All to note

There being no other business, the meeting adjourned at 12:00pm.

[Blank Page]

NOTES OF MEETING
1ST SUB-WORKING GROUP ON
ON-VEHICLE SAFETY DEVICES FOR FRANCHISED BUSES

Date : 27 March 2018

Time : 1000 hour

Venue : Room 4110B, 41/F.,
Immigration Tower, 7 Gloucester Road,
Wan Chi, H.K.

Present : TD Representatives
 Mr David Tsang – Chairman
 Mr Jimmy Yeung
 Mr William Shum
 Ms Amy Lee
 Mr Danny Chan – Secretary

KMB/LW Representatives
 Mr. K W Leung
 Mr Ivan Ho

CTB/NWFB Representatives
 Mr Paul Li
 Mr Kenny So

NLB Representatives
 Mr Benny Chan
 Mr. Patrick Yeung

Bus Suppliers Representatives
 ADL – Mr Andrew Boulton
 Volvo Bus – Mr Scott Harvey
 Volvo Bus – Mr Adam Wong
 Regal (MAN) – Mr Him Kwan
 Regal (MAN) – Mr Rex Wong

ACTION**(a) Welcome Message**

The Chairman welcomed members from the franchised buses companies and bus manufacturers/dealers in participating this sub-working group. The Chairman briefed members the background for setting up this sub-working group and said that as agreed in the Working Group meeting held on 13 March 2018, technical meetings would also be held with members and/or with relevant concerned parties to discuss individual topic. The proposed on-vehicle safety hardware or technologies to be discussed in the meeting are :

- Electronic stability control
- Active / passive roll stability control
- Speed control aided by GPS / geo-fencing
- Speed limiter to cap maximum speed within 70 km/hour
- Safety seat belts for all passenger seats
- Speed display unit for passengers
- Collision prevention and lane keeping device
- Monitoring device on captain's condition e.g. dozing, drowsiness

(b) Discussion on various hardware and technologies of on-vehicle safety devices

The proposed on-vehicle safety devices were explored in the meeting and the initial technical assessments were summarized as follows :

- Electronic stability control (ESC)
Except one of the bus manufacturers which advised that their new and existing buses have already equipped with ESC, the other two bus manufacturers initially advised that their new buses could be equipped with ESC but not in existing buses.

All three bus manufacturers opined that these vehicle's stability systems, including RSC and ESC, could not replace the driver's responsibility for operating the vehicle in a safe manner. Speed and driving style should always be adapted to the current road, traffic and weather conditions. Posted speed limits should always be followed.

- Active / passive roll stability control
Except one of the bus manufacturers which advised that their new and existing buses have already equipped with RSC using active suspension system in rollover protection, the other two bus manufacturers initially replied that their new buses could be equipped with electronic stability control which already minimize the risk of losing control of vehicle.

For passive RSC with audio and visual alert to drivers, bus manufacturers and franchised bus companies opined that it would either be too late for the driver to respond or the alert become a nuisance to the driver if the system was not properly set.

They opined that even with RSC, it is still possible to lose control of the vehicle due to inappropriate driver input for the conditions (for example, aggressive driving can cause lose control of vehicle.). The vehicle can still roll over if the bus is being driven off-road and the body angle is too high. In addition, RSC cannot prevent rollovers caused by hitting a curb or sliding into a ditch.

As the interpretation on the function of the RSC among the three bus manufacturers are quite different, the three bus manufacturers are requested to further clarify with the function and availability of such device.

ADL, Volvo & MAN

- Speed control aided by GPS / geo-fencing

All three bus manufacturers opined that the technology is theoretically feasible. However, they have concerns on the accuracy of GPS signals which will be affected by the high rise buildings of Hong Kong.

The franchised bus companies also concern that bus driver will rely on the speed limit to control the bus rather than to the road and weather conditions.

- Speed limiter to cap maximum speed within 70 km/hour

All three bus manufacturers advised that it is technically feasible to engage retarder and/or service brake automatically to slow down the vehicle when the speed limit is over 70 km/hour during downhill situation.

- Safety Seat Belt for all Passenger Seats

As regards the installation of safety seat belt for all passenger seats, all three bus manufacturers have confirmed that it is technically feasible on new buses, upon the request of franchised bus companies, to supply seat belts for all passengers seats which comply with the said international standards.

As for retrofitting of safety seat belts to the passenger seats of the existing buses, they have concerns that the existing floor structure (especially lower deck) were not designed to comply with these international standards. In order to fulfil the requirements, reinforcement to the existing floor structure may be required and replacement of all existing passenger seats will be required with new passenger seats. Depending of the age of the bus, the bus manufacturers have initially confirmed that it is technically feasible to retrofit safety seat belts to all passenger seats of upper deck of some of the existing buses.

The three bus manufacturers have been requested to further study on whether there it is technically feasible to retrofit safety seat belt for existing buses and the recommended model or batch of buses which are currently used by franchised bus companies.

ADL, Volvo & MAN

- Speed display unit for passengers

All three bus manufacturers confirmed that it is technically feasible to install additional speed display units for passengers.

The franchised bus companies have great reservation on the installation. They opined that such device will create conflict and argument on the vehicle speed between the bus driver and the passengers. As a result of that, it would impose additional pressure to driver and affect their driving safety. In addition, they also emphasized that speed limiters have been installed for all franchised buses to limit the maximum vehicle speed to 70 km/hour during normal driving situation and electronic tachograph ("black box") have been installed for all franchised buses so that bus companies could investigate any driver's mis-behavior including overspeeding, if necessary.

- Collision prevention and lane keeping device

All three bus manufacturers advised that there are in-built systems or third-party systems available for new and existing buses. However, they have reservation that for city operations like that in Hong Kong where road speed is below 70 km/hour and with dense traffic condition, it would frequently generate false alarm. As a result of that, drivers might get used to the false alarm and ignored the real driving situation.

KMB and CTB/NWFB advised that they had performed trial for third-party system (i.e. Mobileye) which generated visual and audio warning to drivers. However, their trial results were not positive and conclusive. CTB/NWFB conducted trial for their three franchised buses and commented that some warnings did not fit for their bus operations. For KMB, they had performed trial on their patrol vehicles and concluded that the system generated false alerts to the drivers.

- Monitoring device on captain's condition e.g. dozing, drowsiness

All three bus manufacturers advised that these systems are third-party system and standalone to the bus system. It is technically feasible to monitor the bus driver status but they also pose unnecessary nuisance (false alarms) to the drivers.

KMB advised that they would conduct a trial on a similar device for four buses in April 2018. KMB agreed to provide trial result to TD for reference.

KMB

To prepare for the further detailed discussion in the Main Working Group in mid-April 2018, the Chairman requested all bus manufacturers to further clarify with their homologation teams or body builders on the proposed on-vehicle safety devices and provide further details including technical limitations, pros and cons, cost implication, availability and applicability to model/batch of bus for TD further consideration.

ADL, Volvo & MAN

For franchised bus companies, they were also requested to provide their comments on the proposed on-vehicle safety devices.

(d) AOB

As regards the installation of demister or equivalent device (e.g. heated windscreen) to prevent fogging of driver windscreen, TD was of the view that demister was a safety device to ensure the driver has a clear view at any time. As such, TD requested all bus manufacturers and franchised bus companies should make sure all the newly delivered buses shall equipped with demister or equivalent device.

All to note

There being no other business, the meeting adjourned at 12:00pm.

**Sub-Working Group on
On-vehicle Safety Devices for Franchised Buses
Notes of 2nd Meeting held on 12 June 2018 at 2:30 p.m.
at Conference Room, 3rd Floor, United Centre, 95 Queensway, Hong Kong**

Present:

Chairman

| | | |
|----|-------------|--|
| TD | Mr. YK CHAN | Assistant Commissioner/Administration and Licensing |
|----|-------------|--|

Member – TD

| | |
|------------------|--|
| Mr. William SHUM | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standards |
| Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| Mr. David TSANG | Senior Engineer/New Vehicle |
| Ms. Amy LEE | Chief Transport Officer/Special Duties |
| Mr. Danny CHAN | Engineer/Bus Safety (Note-taker) |

Member – Bus Operators

| | | |
|--------|--------------|---------------------|
| KMB/LW | Mr. KW LEUNG | Operations Director |
| | Mr. Ivan HO | Principal Engineer |

| | | |
|----------|------------|------------|
| CTB/NWFB | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] |

| | | |
|-----|------------|------------|
| NLB | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] |

Member - Bus Manufacturers

| | | | | | |
|-----|------------|------------|------------|------------|------------|
| ADL | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
|-----|------------|------------|------------|------------|------------|

| | | |
|-------|------------|------------|
| Volvo | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] |

| | | |
|-------------|------------|------------|
| Regal – MAN | [REDACTED] | [REDACTED] |
| | [REDACTED] | |

Action**DISCUSSION****(A) Confirmation of notes of meeting**

The Chairman acknowledged that the draft notes of the last meeting had been circulated to members and comments from members had been incorporated in the notes of meeting. The meeting confirmed the notes of the last meeting.

(B) Discussion on various hardware and technologies of on-vehicle safety devices

2. The Chairman welcomed members of the franchised buses (FB) operators and bus manufacturers/dealers attending the second sub-working group meeting. The Chairman told that, based on the latest advices and updates from bus manufacturers on 7 June 2018 and the previous comments from FB operators in early April 2018, the meeting could further discuss the proposed on-vehicle safety devices in details on the technical feasibility and applicability. The discussions on various hardware and devices were summarized as follows :

(i) Installation of Seat Belts for All Passenger Seats

3.



4.



5. [REDACTED]

6. [REDACTED]

7. All FB operators agreed to specify seat belts at all passenger seats on new buses. They advised that new buses with the following delivery would be incorporated with seat belts:-

- KMB/LW : 145 buses delivered before Oct 2018 and all buses delivered from Jan 2019 onwards

● [REDACTED]

8. [REDACTED]

[REDACTED] From their day-to-day operation experience, most passengers sitting on exposed seats did not wear seat belts. The retrofitting work with huge cost would be a waste of money if nobody uses them. It was agreed that promotion and education to passengers should be conducted to promote the use of seat belts. [REDACTED]

[REDACTED] The estimated cost of retrofit would be in the magnitude of about HK\$240 million which is almost impossible for the company to afford. [REDACTED]

[REDACTED] Therefore they have no plan to retrofit seatbelts on their own. It was agreed that the issue of financial implication would be brought up in the Working Group for discussion.

9. KMB/LW emphasized that they supported the seat belt installations for all new buses. Subject to the technical details and retrofitting proposal provided by the bus manufacturers, KMB/LW might consider to retrofit seat belts phase by phase for buses operating in specific routes where passengers tend to use them. [REDACTED]

(ii) Installation of Electronic stability control ("ESC")

10. [REDACTED]

11. FB operators agreed that new buses with the following delivery would be incorporated with ESC function:-

- KMB/LW : from Jan 2019 onwards

- [REDACTED]

12. Subject to the development result of the ESC device for the existing bus models and the retrofitting proposal (such as cost implication, manpower required and bus downtime) from bus manufacturers, the FB operators might consider the retrofit.

(iii) Installation of speed limiter to cap the maximum speed at 70 km/hour on downhill

13. [REDACTED]

14. FB operators advised that new buses with the following delivery would be incorporated with such function:-

- KMB/LW : from Jan 2019 onwards*

- [REDACTED]

- [REDACTED]

Remarks : [REDACTED]

15. Subject to the development result of the device for the existing bus models and the retrofit proposal (such as cost implication, manpower required and bus downtime) from bus manufacturers, the FB operators might consider the retrofit.

(iv) Installation of Speed display unit ("SDU") in passenger compartment

16. All bus manufacturers expressed it was technically feasible to install SDU for all single deck and double deck buses. However, all three bus manufacturers opined that SDU was not installed for buses in any other countries. All bus manufacturers and FB operators expressed that passengers could check the bus speed by using mobile phone's APP.

17. All FB operators told that their buses had already equipped with visual/audio alarm or both alarms to alert the driver when the bus speed exceeded 70km/hr. KMB/LW mentioned that TD promised to provide the accident statistic of PLB on pre- and post-retrofit of SDU for their reference to show the effectiveness of the device. [REDACTED]

[REDACTED]. They expressed that they already utilized black box data to generate exception reports on over speed to monitor the driver behavior. They also expressed that the government should provide full subsidiary for this installation, if the installation was required by TD. [REDACTED]

18. The Chairman strongly requested FB operators to seriously consider installing the SDU for passengers to know the vehicle speed during their journey.

(v) Trial of Collision prevention and lane keeping devices

19. All bus manufacturers advised that lane keeping device and emergency brake assist ("EBA") to achieve automatic collision prevention were not suitable for city buses and buses with standees due to dense traffic condition and frequent lane changing. It might result in a lot of sudden braking and cause injury to standees. As such, they had no plan to develop this technology for city buses.

All bus manufacturers opined that collision prevention and lane keeping devices supplied by third party were not advisable to be installed for city bus operations. The device would generate false alerts to bus driver in city with dense traffic environment and frequent lane changing movements like HK. As a result of that, drivers might apply inappropriate driving action (such as sudden braking, steering) due to the device's alert, or might ignore the warnings assuming that all are false alarms.

20.

21. During the meeting, TD had shared that the HZMB shuttle buses were fitted with the device.

(vi) Trial of Driver monitoring device

22. KMB/LW told that they had installed the device on four buses and were conducting internal testing and tuning. KMB/LW also told that at the moment the device would not log any data nor capture any image of the driver. It would only alert the driver when abnormalities were detected. Subject to the testing/tuning progress, KMB/LW would probably put the buses in passenger carrying services in late June 2018.

There was no concrete plan for trial at the moment.

23. During the meeting, TD had shared that the HZMB shuttle buses were fitted with such device.

(vii) Fleet Management

KMB/LW

24. All FB operators advised that their current bus onboard system (such as ETA or blackbox) could provide real time data (with certain time delay) to their back-end system for bus and driver monitoring. All FB operators confirmed that their buses were equipped with visual/audio alarm or both alarms to alert driver when the bus speed exceeded 70km/hr. [REDACTED]

[REDACTED].
KMB/LW also told the meeting that their system could also generate exception reports for identified road sections with speed limits of 50km/h and 70km/h. [REDACTED]

r.

25. TD would provide a list of road sections with bus accident happened before to FB operators for their reference. TD also provided the guideline for retrieving the digital map on speed limit for roads managed by TD to FB operators for further enhancement of their fleet management system.

TD

(viii) Trial of Speed control by Global Positioning Service ("GPS") or geo-fencing

26. [REDACTED]

27. [REDACTED]

(C) A.O.B.

28. There being no other business, the meeting adjourned at 5:45 p.m..

**Sub-Working Group on
On-vehicle Safety Devices for Franchised Buses
Notes of 2nd Meeting held on 12 June 2018 at 2:30 p.m.
at Conference Room, 3rd Floor, United Centre, 95 Queensway, Hong Kong**

Present:

Chairman

| | | |
|----|-------------|---|
| TD | Mr. YK CHAN | Assistant Commissioner/Administration and Licensing |
|----|-------------|---|

Member – TD

| | |
|------------------|---|
| Mr. William SHUM | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standards |
| Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| Mr. David TSANG | Senior Engineer/New Vehicle |
| Ms. Amy LEE | Chief Transport Officer/Special Duties |
| Mr. Danny CHAN | Engineer/Bus Safety (Note-taker) |

Member – Bus Operators

| | | |
|----------|-------------------|------------------------------------|
| KMB/LW | Mr. KW LEUNG | Operations Director |
| | Mr. Ivan HO | Principal Engineer |
| CTB/NWFB | Mr. Paul LI | Head of Engineering |
| | Mr. Kenny SO | Senior Engineering Support Manager |
| NLB | Mr. Benny CHAN | Deputy General Manager |
| | Mr. Patrick YEUNG | Head of Service and Training |

Member - Bus Manufacturers

| | | |
|-------------|---------------------|---|
| ADL | Mr. Andrew BOULTON | Customer Development & Technical Director |
| Volvo | Ms. Julia LU | Key Account Manager |
| | Mr. Jacky CHAN | Service Manager |
| Regal – MAN | Mr. Rex WONG | Deputy General Manager |
| | Mr. Torsten PETRICH | Head of Sales and Operations |

Action**DISCUSSION****(A) Confirmation of notes of meeting**

The Chairman acknowledged that the draft notes of the last meeting had been circulated to members and comments from members had been incorporated in the notes of meeting. The meeting confirmed the notes of the last meeting.

(B) Discussion on various hardware and technologies of on-vehicle safety devices

2. The Chairman welcomed members of the franchised buses (FB) operators and bus manufacturers/dealers attending the second sub-working group meeting. The Chairman told that, based on the latest advices and updates from bus manufacturers on 7 June 2018 and the previous comments from FB operators in early April 2018, the meeting could further discuss the proposed on-vehicle safety devices in details on the technical feasibility and applicability. The discussions on various hardware and devices were summarized as follows :

(i) Installation of Seat Belts for All Passenger Seats

3. The three bus manufacturers (i.e. ADL, Volvo and MAN) opined that seat belts were not required for city buses in other countries. They also advised that, in Europe, seat belts were only required for intercity coaches with no standee. The retrofit of seat belt could not protect standing passengers. All bus manufacturers expressed that the seat belts would not provide any protection unless passengers wear them. MAN opined that passengers on city bus tend not to wear seat belt due to the short travelling time (i.e. passengers were in transient).

4. For new buses, ADL, Volvo and MAN confirmed that it was technically feasible to fit seat belts at all seats. For existing buses, ADL, Volvo and MAN advised that it was technical feasible (with modification works of the bus structure, mounting support and replacement of seats) to retrofit seat belts for upper deck of Enviro500 series buses manufactured from 2013, B9TL Euro V and A95 buses respectively. All bus manufacturers expressed that it was impractical to retrofit seat belts for lower deck due to the bus body fiberglass moldings were not designed to support seat belt installations. Volvo advised that there would be substantial reinforcement work required for the upper floor structure for retrofitting seat belts (such as strip the under side of the interfloor to fit spreader plates, etc.). MAN advised that there would be additional reinforcement required in the structure on the seats of last row at upper deck.

5. Due to the availability of the local manpower and premises, ADL and Volvo advised they could only provide technical design and part lists to FB operators to facilitate the retrofit work, and they had no local manpower nor workshop to carry out the retrofitting works. As such, FB operators were required to consider engaging contractors or utilize their own manpower and workshop to carry out the retrofitting works if so required. MAN told the meeting that they could utilize their existing manpower and workshop for the retrofitting works for MAN buses.

6. All bus manufacturers advised that the retrofitting works would cause an increase of about 300kg to 400kg in the weight of the bus. The drive axle loading of the 12.8meter D/D buses would probably exceed the permitted limit. The passenger carrying capacity will probably be decreased by 7 to 8 passengers as advised by ADL. Exemption on the maximum drive axle load for the retrofitted buses would be required. Subject to manpower availability, ADL and Volvo estimated that the retrofitting work would take around one week per bus, for 3 to 4 skilled labour. MAN could not provide the estimation. Both ADL and Volvo expressed that it would be difficult to recruit skilled labour to do the job locally.

7. All FB operators agreed to specify seat belts at all passenger seats on new buses. They advised that new buses with the following delivery would be incorporated with seat belts:-

- KMB/LW : 145 buses delivered before Oct 2018 and all buses delivered from Jan 2019 onwards
- CTB/NWFB : from Jun 2019 onwards
- NLB : new bus orders to be placed in future

8. CTB/NWFB mentioned that the exposed seats on the existing buses were already fitted with 3 point seat belts. From their day-to-day operation experience, most passengers sitting on exposed seats did not wear seat belts. The retrofitting work with huge cost would be a waste of money if nobody uses them. It was agreed that promotion and education to passengers should be conducted to promote the use of seat belts. CTB/NWFB said that they had about 1,100 buses registered in or after 2013 which might be feasible of retrofitting seat belts to the upper deck. The estimated cost of retrofit would be in the magnitude of about HK\$240 million which is almost impossible for the company to afford. CTB/NWFB requested the Government to provide funding or subsidy to such retrofit project if that is really required. Therefore they have no plan to retrofit seatbelts on their own. It was agreed that the issue of financial implication would be brought up in the Working Group for discussion.

9. KMB/LW emphasized that they supported the seat belt installations for all new buses. Subject to the technical details and retrofitting proposal provided by the bus manufacturers, KMB/LW might consider to retrofit seat belts phase by phase for buses operating in specific routes where passengers tend to use them. NLB objected to such installation due to low utilization rate and huge cost. NLB had no plan to retrofit seatbelts.

(ii) Installation of Electronic stability control (“ESC”)

10. ADL, Volvo and MAN confirmed that their new buses would be equipped with ESC. For existing buses, ADL and Volvo expressed that HK was the first city requiring ESC for double deck buses. 12 months and 18-24 months were needed for the development of ESC for existing buses of ADL Enviro500 from 2013 and Volvo B9TL Euro V buses respectively. Both ADL and Volvo advised that they would complete the ESC development for their new Euro 6 buses first and then develop this technology to existing Euro V buses. ADL also advised that apart from the fitment of yaw sensor; steering sensor and a new control unit; a new steering column would be required and the cost is not yet known. MAN told that their new and existing A95 buses would be and were equipped with ESC. No retrofitting work was required

11. FB operators agreed that new buses with the following delivery would be incorporated with ESC function:-

- KMB/LW : from Jan 2019 onwards
- CTB/NWFB : from Jun 2019 onwards
- NLB : new bus orders to be placed in future

12. Subject to the development result of the ESC device for the existing bus models and the retrofitting proposal (such as cost implication, manpower required and bus downtime) from bus manufacturers, the FB operators might consider the retrofit.

(iii) Installation of speed limiter to cap the maximum speed at 70 km/hour on downhill

13. ADL and Volvo expressed that this was a new requirement for double deck buses, and need 12 months and 18-24 months for the development of such device for the existing buses of ADL Enviro500 from 2013 and Volvo B9TL Euro V buses respectively. Both ADL and Volvo advised that they would complete this technology development for their new Euro 6 buses first and then develop this technology to the existing Euro V buses. MAN advised that they were reprogramming their bus to achieve the function and were in the testing stage. MAN could not indicate the retrofit cost for A95 bus.

14. FB operators advised that new buses with the following delivery would be incorporated with such function:-

- KMB/LW : from Jan 2019 onwards*
- CTB/NWFB : from Jun 2019 onwards
- NLB : new bus orders to be placed in future

Remarks : * Volvo committed to retrofit all new Euro VI buses once development completed after end of Jun2019.

15. Subject to the development result of the device for the existing bus models and the retrofit proposal (such as cost implication, manpower required and bus downtime) from bus manufacturers, the FB operators might consider the retrofit.

(iv) Installation of Speed display unit (“SDU”) in passenger compartment

16. All bus manufacturers expressed it was technically feasible to install SDU for all single deck and double deck buses. However, all three bus manufacturers opined that SDU was not installed for buses in any other countries. All bus manufacturers and FB operators expressed that passengers could check the bus speed by using mobile phone’s APP.

17. All FB operators told that their buses had already equipped with visual/audio alarm or both alarms to alert the driver when the bus speed exceeded 70km/hr. KMB/LW mentioned that TD promised to provide the accident statistic of PLB on pre- and post-retrofit of SDU for their reference to show the effectiveness of the device. CTB/NWFB objected to such installation as it might cause conflict between the driver and passengers. They expressed that they already utilized black box data to generate exception reports on over speed to monitor the driver behavior. They also expressed that the government should provide full subsidiary for this installation, if the installation was required by TD. In view of other FB operators and bus manufacturers’ view, NLB had no plan on this.

18. The Chairman strongly requested FB operators to seriously consider installing the SDU for passengers to know the vehicle speed during their journey.

(v) Trial of Collision prevention and lane keeping devices

19. All bus manufacturers advised that lane keeping device and emergency brake assist (“EBA”) to achieve automatic collision prevention were not suitable for city buses and buses with standees due to dense traffic condition and frequent lane changing. It might result in a lot of sudden braking and cause injury to standees. As such, they had no plan to develop this technology for city buses. MAN told that, from their experience, intercity coaches with EBA would have the device disabled during urban driving to avoid false alerts to driver or automatic braking action. All bus manufacturers opined that collision prevention and lane keeping devices supplied by third party were not advisable to be installed for city bus operations. The device would generate false alerts to bus driver in city with dense traffic environment and frequent lane changing movements like HK. As a result of that, drivers might apply inappropriate driving action (such as sudden braking, steering) due to the device’s alert, or might ignore the warnings assuming that all are false alarms.

20. CTB/NWFB clarified that they would install such device in some of their training buses for driver training purpose only (i.e. not for normally operation). CTB/NWFB was requested to provide details of application of such device in training buses. KMB/LW told that they had at present no bus on trial with this. NLB told that they had no plan for any trial on this device.

CTB/NWFB

21. During the meeting, TD had shared that the HZMB shuttle buses were fitted with the device.

(vi) Trial of Driver monitoring device

22. KMB/LW told that they had installed the device on four buses and were conducting internal testing and tuning. KMB/LW also told that at the moment the device would not log any data nor capture any image of the driver. It would only alert the driver when abnormalities were detected. Subject to the testing/tuning progress, KMB/LW would probably put the buses in passenger carrying services in late June 2018. CTB/NWFB told that they were exploring the technical details of similar devices from different suppliers. There was no concrete plan for trial at the moment. NLB had carried out trial on similar device previously but there were inconclusive comments from bus drivers. NLB had no plan for any further trial at the moment.

KMB/LW

23. During the meeting, TD had shared that the HZMB shuttle buses were fitted with such device.

(vii) Fleet Management

24. All FB operators advised that their current bus onboard system (such as ETA or blackbox) could provide real time data (with certain time delay) to their back-end system for bus and driver monitoring. All FB operators confirmed that their buses were equipped with visual/audio alarm or both alarms to alert driver when the bus speed exceeded 70km/hr. CTB/NWFB told the meeting that their RTS2 to be launched in Q3 2018 would generate pop-up alarm through the visual display unit to bus drivers when the bus speed exceed 55km/h for 10 seconds at 25 identified critical road sections. CTB/NWFB would further review other road sections to expand the coverage. KMB/LW also told the meeting that their system could also generate exception reports for identified road sections with speed limits of 50km/h and 70km/h. NLB told that they were in the process to generate exception reports to monitor the bus driver behavior.

25. TD would provide a list of road sections with bus accident happened before to FB operators for their reference. TD also provided the guideline for retrieving the digital map on speed limit for roads managed by TD to FB operators for further enhancement of their fleet management system.

TD

(viii) Trial of Speed control by Global Positioning Service (“GPS”) or geo-fencing

26. Volvo and MAN advised that they could engage the 2-speed limiting function for geofencing purpose and ADL advised they could also introduce a second speed limiting, if required. However, they opined that accurate GPS signal was a “must” for accurate geofencing. Otherwise, the bus would be operated in a false speed limit due to inaccurate GPS signal. They all opined that the GPS signal in HK was highly affected by the high-rise buildings and flyovers. As a result of that, the success in other countries’ trials in geofencing or Intelligent Speed Adaption (ISA) such as UK or Sweden might not be repeated in HK.

27. KMB/LW and Volvo told that they were conducting trial on a Volvo bus with Volvo telematics system to test the speed limiting control by GPS. Currently, the system was still in fine tuning status and at very preliminary stage. KMB/LW and Volvo were requested to provide progress of their trial. Both CTB/NWFB and NLB told that they had no plan for any trial at the moment.

KMB/LW
and Volvo

(C) A.O.B.

28. There being no other business, the meeting adjourned at 5:45 p.m..

[Blank Page]

[Draft] Sub-Working Group on
In-vehicle Safety Devices for Franchised Buses
Notes of 3rd Meeting held on 27 June 2018 at 9:30 a.m.
at Conference Room, 3rd Floor, United Centre, 95 Queensway, Hong Kong

Present:

Chairman

| | | |
|----|-------------|---|
| TD | Mr. YK CHAN | Assistant Commissioner/Administration and Licensing |
|----|-------------|---|

Member – TD

| | |
|------------------|---|
| Mr. William SHUM | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standards |
| Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| Mr. David TSANG | Senior Engineer/New Vehicle |
| Mr. Danny CHAN | Engineer/Bus Safety (Note-taker) |

Member – Bus Operators

| | | |
|--------|-------------|--------------------|
| KMB/LW | Mr. Ivan HO | Principal Engineer |
|--------|-------------|--------------------|

| | | |
|----------|------------|------------|
| CTB/NWFB | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] |

| | | |
|-----|------------|------------|
| NLB | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] |

Member - Bus Manufacturers

| | | |
|-----|------------|------------|
| ADL | [REDACTED] | [REDACTED] |
|-----|------------|------------|

| | | |
|-------|------------|------------|
| Volvo | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] |

| | | |
|-------------|------------|------------|
| Regal – MAN | [REDACTED] | [REDACTED] |
|-------------|------------|------------|

Action**DISCUSSION**

The Chairman welcomed members of the franchised buses (FB) operators and bus manufacturers/dealers attending the third sub-working group meeting.

(A) Confirmation of notes of meeting

2. The Chairman acknowledged that the draft notes of the last meeting had been circulated to members and comments from members had been incorporated in the notes of meeting. As there was no further comment to be raised on the draft notes, they would be taken as confirmed.

(B) Discussion on various hardware and technologies of in-vehicle safety devices

3. The Chairman advised that, based on the discussion at the last Main working group on 21 June 2018, a revised table summarizing all the recommended in-vehicle safety devices was tabled to members for discussion. The Chairman advised that the purpose of the meeting was to revisit the timeframe for implementation or trial of these safety devices taking account the inputs from bus manufacturers' perspective.

(i) Trial of Bus Monitoring and Control System (BMCS)

4. TD briefed members the details of the BMCS as discussed at the last Main working group meeting:

- The BMCS is an integral system coupling the positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology. Trials should be embarked to assess the BMCS in 2 phases.
- Phase 1 BMCS with positioning function, operational information (such as vehicle speed, brake status, deceleration, etc.) monitoring function and geo-fencing technology for fleet management to achieve detection of overspeeding and provide real time alert to the bus captains.
- Phase 2 BMCS will utilize the functions developed in Phase 1

Action

together with the 2-speed active speed limiting device being developed by bus manufacturers to achieve automatic speed limiting functions (50km/hr or 70km/hr depending on the speed limit of road section)

5. [REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

6. TD opined that, these devices were intended to assist bus captain to achieve safe driving but not to take away their responsibility in controlling the bus. The phase 1 BMCS would provide alert to bus captain on speed limit. Subject to the solid proposal from bus manufacturers on the design details of the 2-speed limiting device, the technical details of the device could be further deliberated to ensure the FB operators' concerns could be addressed. [REDACTED]
[REDACTED]

7. The Chairman asked the bus manufacturers whether it was technically feasible to develop the 2-speed limiting device and conduct the trial within 2019. All bus manufacturers agreed that the timeframe was reasonable for them to develop the devices for phase 2 trial.

Action

However, it was also subject to how the black box would provide signal to trigger their 2-speed limiting device. As the trial of phase 1 BMCS would only involve the black box suppliers, TD requested FB operators to closely work with bus manufacturers and black box suppliers to develop a safe device for their operations.

(ii) Installation of Electronic stability control (ESC)

8. For new buses, it has been agreed that ESC would be incorporated. TD noted that the longest development time of ESC retrofit on existing buses would require 18-24 months and asked if the lead time could be further shortened. [REDACTED]

9. [REDACTED]

(iii) Installation of speed limiter to cap the maximum speed of buses at 70 km/hour on downhill

10. For new buses, it has already been agreed that the speed limiter would be incorporated. [REDACTED]

11. [REDACTED]

(iv) Trial of Collision alert and lane keeping devices

12. [REDACTED]

Action

[REDACTED]
[REDACTED]
[REDACTED]

(v) Trial of Driver monitoring device

13. KMB/LW advised that they had installed the device on four buses and were on trial with passenger service. [REDACTED]
[REDACTED]
[REDACTED]

(vi) Installation of Speed display unit ("SDU") in passenger compartment

14. [REDACTED]
[REDACTED]
[REDACTED]

TD advised that their comments/concerns on SDU were noted and would be reflected in the notes of meeting of Main working group and the working group report. [REDACTED]
[REDACTED]

(vii) Installation of Seat Belts for All Passenger Seats

15. TD informed the meeting of their view to retrofit seat belts for bus routes serving long haul passengers, or operating on expressways with limited boarding or alighting activities at the enroute stops where passengers tend to use them. TD had already requested FB operators to provide return on the number of buses involved in these service natures. [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

16. [REDACTED]
[REDACTED]
[REDACTED]

[REDACTED] TD requested that there should be solid proposal made to TD to explain on how the retrofit would affect the passenger carrying capacity and assess the exemption

application.

(C) A.O.B.

17. There being no other business, the meeting was adjourned at 12:00 p.m.

Action

**[Draft] Sub-Working Group on
In-vehicle Safety Devices for Franchised Buses
Notes of 3rd Meeting held on 27 June 2018 at 9:30 a.m.
at Conference Room, 3rd Floor, United Centre, 95 Queensway, Hong Kong**

Present:

Chairman

| | | |
|----|-------------|--|
| TD | Mr. YK CHAN | Assistant Commissioner/Administration and Licensing |
|----|-------------|--|

Member – TD

| | |
|------------------|--|
| Mr. William SHUM | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standards |
| Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| Mr. David TSANG | Senior Engineer/New Vehicle |
| Mr. Danny CHAN | Engineer/Bus Safety (Note-taker) |

Member – Bus Operators

| | | |
|----------|-------------------|------------------------------------|
| KMB/LW | Mr. Ivan HO | Principal Engineer |
| CTB/NWFB | Mr. Paul LI | Head of Engineering |
| | Mr. Kenny SO | Senior Engineering Support Manager |
| NLB | Mr. Benny CHAN | Deputy General Manager |
| | Mr. Patrick YEUNG | Head of Service and Training |

Member - Bus Manufacturers

| | | |
|-------------|--------------------|--|
| ADL | Mr. Andrew BOULTON | Customer Development & Technical Director |
| Volvo | Mr. Adam WONG | Service Manager |
| | Mr. Jacky CHAN | Service Manager |
| Regal – MAN | Mr. Rex WONG | Deputy General Manager |

Action**DISCUSSION**

The Chairman welcomed members of the franchised buses (FB) operators and bus manufacturers/dealers attending the third sub-working group meeting.

(A) Confirmation of notes of meeting

2. The Chairman acknowledged that the draft notes of the last meeting had been circulated to members and comments from members had been incorporated in the notes of meeting. As there was no further comment to be raised on the draft notes, they would be taken as confirmed.

(B) Discussion on various hardware and technologies of in-vehicle safety devices

3. The Chairman advised that, based on the discussion at the last Main working group on 21 June 2018, a revised table summarizing all the recommended in-vehicle safety devices was tabled to members for discussion. The Chairman advised that the purpose of the meeting was to revisit the timeframe for implementation or trial of these safety devices taking account the inputs from bus manufacturers' perspective.

(i) Trial of Bus Monitoring and Control System (BMCS)

4. TD briefed members the details of the BMCS as discussed at the last Main working group meeting:

- The BMCS is an integral system coupling the positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology. Trials should be embarked to assess the BMCS in 2 phases.
- Phase 1 BMCS with positioning function, operational information (such as vehicle speed, brake status, deceleration, etc.) monitoring function and geo-fencing technology for fleet management to achieve detection of overspeeding and provide real time alert to the bus captains.
- Phase 2 BMCS will utilize the functions developed in Phase 1

Action

together with the 2-speed active speed limiting device being developed by bus manufacturers to achieve automatic speed limiting functions (50km/hr or 70km/hr depending on the speed limit of road section)

5. NWFB/CTB raised concerns on the legality of automatic speed limiting by the BMCS taking the following situations as examples -

Situation 1 : When a bus is running at 70km/h and entering a 50km/h speed limit section, the bus will be automatically decelerate; and

Situation 2 : When a bus is running 50km/hr and entering the 70km/hr speed limit section, the bus will suddenly accelerate if the acceleration pedal is fully pressed.

NWFB/CTB pointed out that, under both situations, there might be a risk that passengers may be fallen when the bus decelerate or accelerate suddenly without notice and asked who would be responsible for such automatic actions.

6. TD opined that, these devices were intended to assist bus captain to achieve safe driving but not to take away their responsibility in controlling the bus. The phase 1 BMCS would provide alert to bus captain on speed limit. Subject to the solid proposal from bus manufacturers on the design details of the 2-speed limiting device, the technical details of the device could be further deliberated to ensure the FB operators' concerns could be addressed. ADL suggested that they could propose the conditions/logic of speed limiting in one month time.

7. The Chairman asked the bus manufacturers whether it was technically feasible to develop the 2-speed limiting device and conduct the trial within 2019. All bus manufacturers agreed that the timeframe was reasonable for them to develop the devices for phase 2 trial.

Action

However, it was also subject to how the black box would provide signal to trigger their 2-speed limiting device. As the trial of phase 1 BMCS would only involve the black box suppliers, TD requested FB operators to closely work with bus manufacturers and black box suppliers to develop a safe device for their operations.

(ii) Installation of Electronic stability control (ESC)

8. For new buses, it has been agreed that ESC would be incorporated. TD noted that the longest development time of ESC retrofit on existing buses would require 18-24 months and asked if the lead time could be further shortened. Both Volvo and MAN replied that they would further check with the head-office to see if the development time could be further shortened. ADL replied that their ESC for Euro VI bus would probably be available in mid-2019 and the retrofit kit for Euro V bus would probably be available between mid to end 2019. ADL emphasized that there would be a lot of testing works on the ESC retrofit to ensure its safe operation before it could be launched for retrofit. ADL had agreed to provide the details of retrofit works required.

Volvo,
MAN and
ADL

9. MAN clarified that their Euro V double-deck buses manufactured from 2016 had already been equipped with ESC; and the retrofit kit would be developed for those Euro V buses manufactured before 2016.

(iii) Installation of speed limiter to cap the maximum speed of buses at 70 km/hour on downhill

10. For new buses, it has already been agreed that the speed limiter would be incorporated. MAN advised that they were still in the process of reprogramming their buses to achieve the function and it is in the testing stage. Both ADL and Volvo advised that the development of retrofit kit of this device for double deck buses would take 12 and 18-24 months respectively.

11. As regards the concerns of NWFB/CTB on the speed reduction in phase 2 BMCS, it was clarified that the speed reduction range (say from 73km/h to 70km/hr) for the deceleration was much lower than the case in BMCS (say 70km/hr to 50km/hr).

(iv) Trial of Collision alert and lane keeping devices

12. TD advised that the NWFB/CTB would conduct trials on their

Action

training buses. Based on the discussion in the Main working group, KMB/LW and NLB had also agreed to explore these devices and embark the trial on their buses in 2018.

(v) Trial of Driver monitoring device

13. KMB/LW advised that they had installed the device on four buses and were on trial with passenger service. TD advised that, based on the Main working group discussion, CTB/NWFB and NLB had also agreed to explore similar devices and embark the trial in 2018.

(vi) Installation of Speed display unit (“SDU”) in passenger compartment

14. NWFB/CTB and NLB expressed reservations (such as other safety enhancements were/being in place, the effectiveness and conflict between bus captain and passengers, etc.) on the installation of SDU. TD advised that their comments/concerns on SDU were noted and would be reflected in the notes of meeting of Main working group and the working group report. NWFB/CTB agreed that, subject to the result of union consultation, they would consider the installation the SDU.

(vii) Installation of Seat Belts for All Passenger Seats

15. TD informed the meeting of their view to retrofit seat belts for bus routes serving long haul passengers, or operating on expressways with limited boarding or alighting activities at the enroute stops where passengers tend to use them. TD had already requested FB operators to provide return on the number of buses involved in these service natures. NWFB/CTB emphasized that they did not agreed to such retrofit work unless it would be funded by the government. NWFB/CTB also mentioned that it would take 3-4 skilled labour one week to retrofit a bus (e.g. one man-month). Taking into account the labour cost and material cost, it was estimated that the retrofit cost for one bus would be around \$240,000.

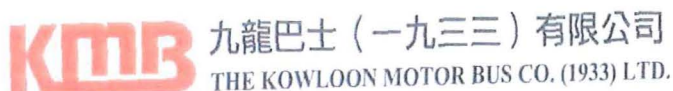
16. ADL expressed that there would be reduction of passenger carrying capacity due to the seat belt retrofitting works and sought TD’s exemption on the maximum axle load. TD requested that there should be solid proposal made to TD to explain on how the retrofit would affect the passenger carrying capacity and assess the exemption

application.

(C) A.O.B.

17. There being no other business, the meeting was adjourned at 12:00 p.m.

Action



Our Ref: MD/009/2018

15 March 2018

Your Ref:

Commissioner for Transport
Transport Department
41st Floor
Immigration Tower
7 Gloucester Road
Wan Chai
Hong Kong

Attn: Ms Rachel KWAN

[By Email and By Fax]

Dear Commissioner,

Working Group of Enhancement of Franchised Bus Safety

The first meeting of the Working Group of Enhancement of Franchised Bus Safety (the "Working Group") has been held on 13 March 2018.

In the meeting, franchised bus operators and your Department discussed on the scope of works of the Working Group. KMB suggested the following items to be included in the scope of the Working Group.

1. Illegal parking and loading/unloading activities at bus stops

A number of recent incidents show that parking and loading/unloading activities by vehicles other than public buses at bus stops result in difficulties for franchised buses to enter bus bays properly. Not only does this create longer journey time for franchised bus services, in some cases bus captains are forced to allow passengers boarding or alighting the buses in the middle of the road, thus creating safety hazards to the traffic. More often, the tails of the buses may obstruct the normal traffic if they cannot completely enter the bus bays, and this leads to higher chance of traffic accidents.



2. Traffic congestion

There is no doubt that traffic congestion leads to prolonged journey time, and a more tiring driving experience from the bus captains compared to a smooth journey. We believe that some policies or measures (such as bus priority measures) can be relieved that traffic congestion problem faced by franchised buses, which will in turn help relieve the stress of the bus captains.

3. Bus captain assault

We observe an increasing trend of bus captain assault cases recently. We and our bus captains consider that the government should step up enforcement against the alleged assault cases, and consider revising the existing regulations for increasing punishment for these cases. The government should also join hands with franchised bus companies for related promotion and education to the society.

4. Traffic black spots

We receive comments on special road design or bus stop arrangement that are prone to traffic accidents, as well as suggestions on improving road safety (such as relocation of bus stops, additional road barriers) from our frontline staff on a day-to-day basis. We suggest discussing these key traffic black spots and suggestions with your Department and other franchised bus companies in the Working Group in order to minimize the chance of traffic accident.

We respectfully urge your Department to consider including the above items to the scope of the Working Group, such that the review conducted by the Working Group will be more comprehensive.

Kindly contact the undersigned if you have any further queries on the above.

Thank you for your attention.

Yours faithfully,
for and on behalf of
THE KOWLOON MOTOR BUS CO. (1933) LTD.

Godwin So
General Manager,
Corporate Planning & Business Development

c.c. Ms Amy TSE – Transport Department (By email)
c.c. Mr CK LEUNG – Transport Department (By email)



Our Ref: TD BR 76/190-2C
Your Ref: MD/009/2018
Tel No.: 2829 5306
Fax No.: 2511 4158

Urgent By Fax
(Fax No. 2745 0300)

26 March 2018

Mr Godwin So
General Manager
Corporate Planning & Business Development
The Kowloon Motor Bus Co. (1933) Ltd.
9 Po Lun Street
Lai Chi Kok
Kowloon

Dear Godwin,

Working Group of Enhancement of Franchised Bus Safety

Thank you for attending the first meeting of the Working Group of Enhancement of Franchised Bus Safety ("WG") held on 13 March 2018 and your subsequent letter dated 15 March 2018.

We appreciate your valuable comments and suggestions on four subjects mentioned by you at the said meeting and in your letter. The Government attaches great concerns to these issues and has taken various actions to tackle these issues with details set out in the following paragraphs. As deliberated at the first meeting, the purpose of the WG meeting is to review and study measures to further enhance bus safety with focus on the training arrangements for bus captains, installation of seat belts on all seats and installation of on-vehicle safety device. Given limited time span of the WG, it is considered that the WG should focus on the proposed scope of works with a view to timely submitting a review report on the outcome and recommendations to the Commissioner for Transport in 3 months' time. As for the four subjects that you have raised, we would handle them separately outside the WG.

1. Illegal parking and loading/unloading activities at bus stops

There are meetings between the Police and the TD which are held regularly to review, among other traffic issues, the black spots of illegal parking on busy road sections that obstruct bus operations when bus observing the bus stops thereat. Through these meetings and other routine channels, lists of black spots based on our routine site inspections and inputs from bus companies are provided to the Police for their stepping up of enforcement actions against illegal parking.

Apart from working with the Police on stepping up enforcement action against illegal parking at the bus stops, TD also reviews the traffic conditions and designates restricted zones in the vicinity of bus stops as appropriate with a view to facilitating smooth operation of buses and Police's enforcement against illegal parking at the bus stops. Other than the above, we have recently worked with the Police and produced a session in the Police Magazine reminding other drivers not to park their vehicles at the bus stops.

We are of the view that enforcement action against illegal parking at the bus stops is an on-going exercise. With assistance from KMB and other bus companies, we can give information to the Police for their timely action. In this regard, I should be grateful if you would keep on providing us with locations of bus stops where illegal parking is serious for our follow-up with the Police.

2. Traffic congestion

3. Bus captain assault

We share with you that traffic congestion and threat of assault on bus captains put pressure and stress on bus captains when they are driving. As mentioned in the Policy Address 2017, the Government will continue the effort to alleviate road traffic congestion by implementing measures such as taking forward the study on the rationalisation of the traffic distribution among the three road harbour crossings and the three land tunnels between Kowloon and Sha Tin, commencing a consultancy study on parking for commercial vehicles, implementing a series of short and medium to long terms measures to increase the provision of parking spaces having regard to the situation in various districts, and conducting a feasibility study for the Electronic Road Pricing Pilot Scheme in

Central and its adjacent areas. In addition, with effect from 1 June 2018, the Government will increase the level of fixed penalties for congestion-related traffic offences to restore the deterrent effect of fixed penalty charges to tackle traffic congestion.

Furthermore, bus priority measures, such as designation of new bus only lanes and extension of effective hours of existing bus only lanes, will be considered to facilitate smooth bus operations on major bus corridors having due regard to the actual road situation and traffic conditions. In fact, we have extended the operation hours of six bus-only lanes and implemented one additional bus-only lane in the past three years (i.e. from 2015 to 2017) and will consider the new bus priority measures as proposed in the Public Transport Strategy Study.

On day-to-day basis, we have established close liaison with the Police in monitoring of the traffic situation especially during peak hours. In the event of traffic congestion, we will take appropriate actions, including adjustment of the traffic signals, regulating the traffic by the Police on site and disseminating traffic news to advise the public so as to alleviate traffic congestion.

Stress of bus captains resulted from traffic congestion may also be partly alleviated through flexible deployment of spare bus captains. Should persistent traffic congestion occur on particular road section and affect the scheduled trips, you may consider submitting applications to our Regional Offices for amending the schedules of service if the demand can be met.


On noting that there are assault on bus captain cases, we have worked with the Police and produced a session in the Police Magazine to publicize and educate the public not to disturb bus captain's driving and remind them of the serious legal consequence of the assault on or disturbance to bus captain. In respect of your suggestion of intensifying the penalty for such offence in law, we would refer it to the Police for their consideration. On your side, you may also consider enhancing the publicity on passengers' behavior and exploring the feasibility of installing/improving on-vehicle device/facilities to safeguard the bus captains against attack while they are driving.

4. Traffic black spots

Currently, roads are designed and bus stops are designated in compliance with the Transport Planning and Design Manual. Over the years, re-organisations of bus stops along major bus corridors such as Nathan Road and Kwun Tong Road have been implemented to facilitate smooth bus operations. Civil works such as widening of carriageway and junction have been carried out to facilitate bus movements and manoeuvrings. Having said that, we will continue review the need for re-organisation of bus stops, refine the road layout and install road barriers to facilitate safe bus operations as and when necessary. Should you have any specific suggestions and comments in this aspect, you may submit concrete proposals to us for consideration.

As an operator providing land transport services on the road, we believe you have solid experience and may have concrete proposals in mind already probably not just confining to the four subjects that you have mentioned above for further enhancing safe operation of franchised bus. Should you have any suggestion, please feel free to contact us.

Yours sincerely,



(Miss Rachel Kwan)
for Commissioner for Transport

Our Ref: CPBD/010L/TD/KMB/18

11 July 2018

Your Ref: TD BR 76/190-2C

Commissioner for Transport
Transport Department
41st Floor
Immigration Tower
7 Gloucester Road
Wan Chai
Hong Kong

Attn: Ms Macella LEE

[By Email and By Fax (2824 0433)]

Dear Commissioner,

Working Group of Enhancement of Franchised Bus Safety

We refer to your letter dated 26 March 2018 on the captioned subject.

Further to your reply letter and subsequent discussion in various occasions including the Regular Meeting between your Department and KMB / LW held on 31 May 2018, we understand that your Department would like to handle the following proposed subjects outside the Working Group of Enhancement of Franchised Bus Safety (the "Working Group"):

- Illegal parking and loading/unloading activities at bus stops
- Traffic congestion
- Bus captain assault
- Traffic black spots

The Working Group has been an effective platform for discussing bus safety related issues among all franchised bus operators and your Department. It is observed that there has been fruitful progress for the Working Group, and the first set of missions will be achieved shortly. In light of this, we respectfully urge your Department to re-consider including our proposed subjects as part of the scope of the Working Group in the second phase, as we should continue to utilise this effective platform for enhancing bus safety.

Otherwise, it would be grateful if you could provide the preliminary route map, timetable and the suggested format for the discussion of these matters outside the Working Group. We expect your suggested format should have similar effectiveness when compared to including them in the Working Group, and representatives from other franchised bus companies will also take part to enhance the recognition of the discussion in the industry.



Our Ref: CPBD/010L/TD/KMB/18
Your Ref: TD BR 76/190-2C

Kindly contact the undersigned if you have any further queries on the above. We look forward to your favorable reply.

Thank you for your attention.

Yours faithfully,
for and on behalf of
THE KOWLOON MOTOR BUS CO. (1933) LTD.

Godwin So
General Manager,
Corporate Planning & Business Development

c.c. Ms Amy TSE – Transport Department (By email)
c.c. Mr CK LEUNG – Transport Department (By email)

13.1 Summary of Practice Note and Guidelines documents

| Date | Description | Summary | Reference |
|---------------|---|--|-------------------|
| 4 June 2018 | 2 nd and 4 th Draft Guidelines on Training for Franchised Bus Captains, annexed to the Draft Notes of Second Meeting held on 4 June 2018 of the Technical Meeting on Training Arrangements for Bus Captains | Meeting notes enclosing several Draft Guidelines on Training for Franchised Bus Captains | Document no. 13.3 |
| 21 June 2018 | The Practice Note on Training Framework for Franchised Bus Captains, annexed to the Notes of 3 rd Meeting held on 21 June 2018 of the Working Group on Enhancement of Safety of Franchised Buses | Meeting notes enclosing the Practice Note on Training Framework for Franchised Bus Captains | Document no. 13.4 |
| 6 August 2018 | Practice note on Training Framework for Franchised Bus Captains, annexed to letter from Transport Department | Letter enclosing the Practice Note drawn up by the Transport Department and other directions given by the Transport Department | Document no. 13.5 |

13.2 Summary of correspondences between KMB and the Transport Department

| Date | Description | Summary | Reference |
|---------------|---|---|-------------------|
| 18 July 2018 | Letter from KMB to Transport Department | Enquiries regarding the Guidelines and the Practice Note | Document no. 13.6 |
| 6 August 2018 | Letter from Transport Department to KMB | Reply to KMB's enquiries regarding the Guidelines and the Practice Note | Document no. 13.7 |

[Draft]
Technical Meeting on
Training Arrangements for Bus Captains

Notes of Second Meeting held on 4 June 2018 at 2.30 p.m.
at Room 4110B, 41/F, Immigration Tower, Wan Chai

Present:

Convener

| | | |
|----|-----------------|---|
| TD | Ms. Macella LEE | Deputy Commissioner for Transport/ Transport Services and Management |
|----|-----------------|---|

Member – TD

| | | |
|-----|------------------|--|
| BRB | Mr. Patrick WONG | Assistant Commissioner for Transport/ Bus and Railway |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |

Member – Franchised Bus Operators

| | | |
|--------|----------------|--|
| KMB/LW | Mr. James WONG | Head of Training and Quality Assurance Department |
|--------|----------------|--|

CTB/NWFB



NLB



Note-taker

| | | |
|----|-----------------|------------------------------------|
| TD | Miss Natalie YU | Senior Transport Officer/Railway 6 |
|----|-----------------|------------------------------------|

ActionDISCUSSION**(A) Confirmation of notes of meeting**

The Convener acknowledged that the draft notes of the last meeting had been circulated to Members and comments from Members had been incorporated in the notes of meeting. With no further comments, the Meeting confirmed the notes of the last meeting.

(B) Matters arising from the last meeting“Buddy Bus Captain” scheme

2. [REDACTED]

[REDACTED] On that day, the experienced bus captain will give advice and assistance to new bus captains on their future daily works such as driving trips about routes that the bus captains will be driven on, sign on / sign off procedures, meal break arrangement and introduce the new bus captains to the regulators etc. [REDACTED]

3. [REDACTED] KMB/LW clarified that their experienced bus captains assigned in the “Buddy Bus Captain” scheme would only provide tips/reminders to the new bus captains when necessary during the revenue trips.

4. [REDACTED]

5. The TD concluded that he scheme was beneficial to new bus captains and encouraged all FB operators to implement similar scheme in a way that would be able to meet the requirements of their daily

Action

operations.

Bus Captains Incurring DOPs

6.

c
t
t

KMB/LW

replied that they had recently included a condition in the employment contracts of new bus captains on disclosure of DOPs information. For bus captains under previous employment contracts, KMB/LW supplemented that they would have to discuss with bus captain's unions on reporting of DOPs before making decision on the way forward.

7. Noting that DOPs serve as a good indicator of the driving performance of a driver, the TD encouraged all FB operators to consider incorporating a clause on disclosure of DOPs regularly into their bus captains' employment contracts and/or as one of the staff regulation in order to monitor the driving competence of their in-service bus captains.

All FB
operators

Accident rate and Driver Age

8.

(C) Guidelines on Training for FB Captains

9. The draft Guidelines on Training for Bus Captains ("the Guidelines") (**Annex A**) was discussed. The TD advised that the Guidelines aimed at aligning the training system of different FB operators and institutionalizing the monitoring of FB companies' training arrangements for bus captains.

10. Taking the operational needs of different FB operators into

Action

the account, all FB operators agreed that the number of training day(s) would serve the basis of the training duration, except the on-the-wheel road training under the induction course. After deliberation, the Meeting considered that the instructor to trainee ratio varied among FB operators would affect the training intensity received by the bus captains, and agreed that number of training hours would serve the basis for the on-the-wheel road training of the induction course.

11. The Meeting noted that the objective of the refresher course was to share important and current job-related information with the in-service bus captains. [REDACTED]

[REDACTED] The TD noted that the arrangements of refresher course provided by the FB operators varied. With the objective of the Guidelines to align the training system of different franchised bus operators, the TD proposed that the minimum duration of the refresher course would be half day.

12. In the last technical meeting on training arrangements for bus captains, the TD learnt from the FB operators that a bus captain might not be required to attend separate refresher course once every three years if he/she had attended other training(s) within a three-year period under the existing practice. In light that the nature of refresher training was different from other trainings and with a view to ensure bus captains receiving important and current job-related information through attending refresher course regularly, the TD was of the view that refresher course should be provided to all serving bus captains in every three years, regardless whether or not other trainings on routes, bus models or driving improvement, were provided during the period. KMB/LW had reservation to arrange all serving bus captains to attend refresher course in addition to bus route training, bus model training or ancillary trainings. In consideration of limited number of bus captains available for provision of bus services, KMB/LW expected that bus service might be affected. KMB/LW said that they would try to explore the feasibility of delivering refresher course on-site and would advise TD on the arrangement of refresher course.

KMB/LW

[Post-meeting note: Having regard to the large number of bus captians, the need to avoid bunching in bus captains for refresher training, KMB/LW proposed on 15 June 2018 to implement the proposed refresher training by phases with full implementation in three-year's time in accordance with the requirement stipulated in the proposed Guidelines. [REDACTED]

Action

13. In connection with ancillary training for improper driving behaviour, the Meeting agreed that the minimum duration would be one day for both full-time and part-time bus captains. The Meeting noted that FB operators provided the ancillary training by different means with the common objective to rectify the improper driving behaviour of bus captains. Taking the above into the account, the Meeting agreed that FB operators could continue adopting the means of delivering the ancillary training which were considered effective. To more accurately reflect the purpose to rectify the improper driving behaviour or attitude during the training, the TD proposed to rename it as remedial training. All FB operators welcomed the proposal.

14. Regarding the bus captains who had been abstained from driving duties for more than 30 days, all FB operators advised that driving assessments for these bus captains would be conducted in order to ensure bus captains' driving competence before assigning the bus captains to provide FB service, and the Meeting agreed that to take out these bus captains from the targets of the remedial training. That said, the TD encouraged the FB operators to provide training for bus captains who have been abstained from driving duties for a long period of time when deemed necessary.

15. The TD advised that the draft Guidelines would be revised according to the meeting discussion and would circulate to the meeting members after the meeting. TD

(Post-meeting note : The revised draft Guidelines were circulated to the FB operators on 5 June 2018. FB operators provided further textual comments on the draft Guidelines, and the latest draft of the Guidelines was at **Annex B.**)

16. As a part of the Guidelines, all FB operators were requested to have an internal monitoring and audit mechanism with the objectives to (i) monitor the compliance of the Guidelines, (ii) develop key indicators on the effectiveness of the training system provided to bus captains, and (iii) review and determine appropriate actions or measures in light of the findings of the indicators. The TD pointed out that regular periodic reports (e.g. at least half-yearly) in respect of the findings should be submitted to their respective Boards of Directors with the purpose to allow the Government representatives in the Board to oversee the bus captains' training regularly. All FB operators were

All FB
operators

Action

requested to bring this up to their respective management on the requirements to develop an internal monitoring and audit mechanism with a view to submitting their internal monitoring and audit mechanism by end of June 2018 for record with the target effective date of the mechanism in the fourth quarter of 2018.

17. There being no other business, the meeting adjourned at 5:00 p.m..

DRAFT 2**Annex A****Guidelines on Training for Franchised Bus Captains****(A) Structure of training system**

1. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of courses | Minimum Duration | Target Trainees ⁽¹⁾ | Timing |
|---|---|--------------------------------|---|
| (a) Induction course | | New recruits | Before providing passenger service |
| (i) Classroom training | 1 day (Full-time) & 0.5 day (Part-time) | | |
| (ii) On-the-wheel route training | <u>Full-time bus captains</u> 5 – 15 days, subject to the 'instructor to trainee' ratio ⁽²⁾ <u>Part-time bus captains</u> 4 days at an 'instructor to trainee' ratio of 1:2 | | |
| (b) Refresher course (classroom training) | 1 day | In-service captains | Once in every three years |
| (c) New bus route training | On-the-wheel training before revenue trip | In-service captains | Before the bus captain is assigned to provide service |
| (d) New bus type (model with new driving features) training | On-the-wheel training before revenue trip | In-service captains | Before the bus captain is assigned to provide service |
| (e) Ancillary training | | In-service captains | As and when required |
| (i) On-the-wheel and classroom training for bus captains with improper driving behavior or attitude | 1 day | | |
| (ii) On-the-wheel training for bus captains have been abstained from driving duties for more than 30 consecutive days | 0.5 day | | |

Note (1) : Applicable to full-time and part-time bus captains.

Note (2) : The minimum training days for 'instructor to trainee' ratios of 1:2, 1:3, 1:4, and 1:5 will be 8, 10, 13 and 15 respectively. There is an exception for New Lantao Bus Co. Ltd. (NLB) whose minimum training days for its new full-time bus captains is 5 days at an 'instructor to trainee' ratio of 1:2, in the light of its much smaller and confined bus routings and networks mostly within Lantau.

DRAFT 2**Annex A****(B) Modules for Induction and Refresher Courses**

2. During the induction course, both on-the-wheel route training and classroom training are provided. The following Modules are covered in both classroom and on-the-wheel route training. While route training enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it also covers the following modules in a practical ways with on-the-ground experiences. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course | Weightings in refresher course |
|---|--------------------------------|--------------------------------|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/ facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

(C) Ancillary Training requirements

3. The following bus captains should be refrained from delivering any driving duty until they have at least attended and completed the ancillary training satisfactorily :-
- (a) with improper driving behaviour detected from black box data or other sources like plain-cloth inspections, irrespective such driving behavior leads to incurrence of any driving offence points ("DOPs"); or
 - (b) having involved in serious accidents; or
 - (c) having persistently committed same traffic offence; or
 - (d) having reached a certain DOPs (say, 8 DOPs or above).

(D) Internal Monitoring and Audit Mechanism by FB Operators

4. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :
 - (a) To monitor the compliance of this Training Guidelines;
 - (b) To develop key indicators on the effective of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
 - (c) In the light of the findings of (b), to review and determine appropriate actions or measures.
5. The management of FB Operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Board of Directors in respect of the findings on matters in para. 4 above.

Transport Department
June 2018

DRAFT 4**Annex B****Guidelines on Training for Franchised Bus Captains****(A) Structure of training system**

1. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of Courses | Minimum Duration | Target Trainees ⁽²⁾ | Timing |
|---|--|--|---|
| (a) Induction course | 1 day (Full-time) & 0.5 day (Part-time) | New recruits | Before providing passenger service |
| (i) Classroom training | | | |
| (ii) Behind-the-wheel road training | <u>Full-time bus captains</u> 20 hours ⁽¹⁾ | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| | <u>Part-time bus captains</u> 16 hours ⁽¹⁾ | | |
| (b) Refresher course | 0.5 day | In-service bus captains | Once in every three years |
| (c) New bus route training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (d) New bus type (model with new driving features) training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (e) Remedial training | 1 day | In-service bus captains with improper driving behavior or attitude | As and when required |

Notes :

- (1) After the behind-the-wheel road training, the bus captains will be subject to internal driving assessment. The bus captains must pass the internal driving assessment before they are deployed on revenue trips.
- (2) Applicable to full-time and part-time bus captains.

DRAFT 4**Annex B****(B) Modules for Induction and Refresher Courses**

2. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course (Classroom and Behind-the-wheel Road Training ⁽³⁾) | Weightings in refresher course (Classroom) |
|---|---|--|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

Notes :

- (3) While behind-the-wheel road training provided during induction course enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it also covers the abovementioned modules in a practical ways with on-the-ground experiences.

(C) Remedial Training

3. The following bus captains should be required to attend and complete the remedial training :-
- (a) with improper driving behaviour repeatedly detected from black box data or other sources like plain-cloth inspections; or
 - (b) having involved in serious traffic accidents; or
 - (c) having persistently committed same traffic offence; or
 - (d) having reached a certain driving offence points ("DOPs") (say, 8 DOPs or above).

(D) Internal Monitoring and Audit Mechanism by Franchised Bus Operators

4. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :
 - (a) To monitor the compliance of this Training Guidelines;
 - (b) To develop key indicators on the effectiveness of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
 - (c) In the light of the findings of (b), to review and determine appropriate actions or measures.
5. The management of Franchised Bus Operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Boards of Directors in respect of the findings on matters in para. 4 above.

Transport Department

June 2018

[Draft]
Technical Meeting on
Training Arrangements for Bus Captains

Notes of Second Meeting held on 4 June 2018 at 2.30 p.m.
at Room 4110B, 41/F, Immigration Tower, Wan Chai

Present:

Convener

| | | |
|----|-----------------|---|
| TD | Ms. Macella LEE | Deputy Commissioner for Transport/ Transport Services and Management |
|----|-----------------|---|

Member – TD

| | | |
|-----|------------------|--|
| BRB | Mr. Patrick WONG | Assistant Commissioner for Transport/ Bus and Railway |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |

Member – Franchised Bus Operators

| | | |
|--------|----------------|--|
| KMB/LW | Mr. James WONG | Head of Training and Quality Assurance Department |
|--------|----------------|--|

| | | |
|----------|-------------------|-----------------------------|
| CTB/NWFB | Mr. William CHUNG | Head of Operations |
| | Mr. Vincent FUNG | Senior Operations Manager |
| | Mr. Ryan LO | Operations Training Manager |

| | | |
|-----|-----------------|------------------------------|
| NLB | Mr. Benny CHAN | Deputy General Manager |
| | Mr. Richard LEE | Manager, Training Department |

Note-taker

| | | |
|----|-----------------|------------------------------------|
| TD | Miss Natalie YU | Senior Transport Officer/Railway 6 |
|----|-----------------|------------------------------------|

Action**DISCUSSION****(A) Confirmation of notes of meeting**

The Convener acknowledged that the draft notes of the last meeting had been circulated to Members and comments from Members had been incorporated in the notes of meeting. With no further comments, the Meeting confirmed the notes of the last meeting.

(B) Matters arising from the last meeting**“Buddy Bus Captain” scheme**

2. Making reference to KMB’s “Buddy Bus Captain” scheme, CTB/NWFB advised that they started to arrange experienced bus captains to accompany new bus captains on their first day of work, after the induction training from mid-May 2018. CTB/NWFB further added that the bus captains would not be assigned any passenger-carrying service on the first day of work. On that day, the experienced bus captain will give advice and assistance to new bus captains on their future daily works such as driving trips about routes that the bus captains will be driven on, sign on / sign off procedures, meal break arrangement and introduce the new bus captains to the regulators etc. CTB/NWFB advised that as it was prohibited to talk to bus captains when the buses were moving, this might possibly induce passenger complaints if bus captains talked to another uniform staff when driving.

3. In response to CTB/NWFB’s concern, KMB/LW clarified that their experienced bus captains assigned in the “Buddy Bus Captain” scheme would only provide tips/reminders to the new bus captains when necessary during the revenue trips.

4. NLB said that they would introduce “大師兄計劃”, which their in-house instructors would be arranged to accompany new bus captains in their first and second revenue trips, the scheme was expected to be put into practice from the fourth quarter of 2018.

5. The TD concluded that he scheme was beneficial to new bus captains and encouraged all FB operators to implement similar scheme in a way that would be able to meet the requirements of their daily

Action

operations.

Bus Captains Incurring DOPs

6. In respect of the frequency in reporting of DOPs by bus captains, NLB reported that they requested the bus captains to declare their DOPs, be it incurred when performing driving duties or during their rest time, when they attended the refresher course. CTB/NWFB said that their bus captains were requested to report to the company whenever DOPs were incurred, and the requirement of such reporting was stipulated as a company rule in the staff handbook. KMB/LW replied that they had recently included a condition in the employment contracts of new bus captains on disclosure of DOPs information. For bus captains under previous employment contracts, KMB/LW supplemented that they would have to discuss with bus captain's unions on reporting of DOPs before making decision on the way forward.

7. Noting that DOPs serve as a good indicator of the driving performance of a driver, the TD encouraged all FB operators to consider incorporating a clause on disclosure of DOPs regularly into their bus captains' employment contracts and/or as one of the staff regulation in order to monitor the driving competence of their in-service bus captains.

All FB
operators

Accident rate and Driver Age

8. The Meeting noted that CTB/NWFB and KMB/LW submitted the statistics on the correlation between the accident rate and the bus captains' ages for the past three years, while CTB/NWFB also provided the analysis on the correlation between the accident rate and the types of bus captains from 2015 to 2017. CTB/NWFB and KMB/LW pointed out that there was no strong correlation between the accident rate and the bus captains' age or the types of bus captains.

(C) Guidelines on Training for FB Captains

9. The draft Guidelines on Training for Bus Captains ("the Guidelines") (**Annex A**) was discussed. The TD advised that the Guidelines aimed at aligning the training system of different FB operators and institutionalizing the monitoring of FB companies' training arrangements for bus captains.

10. Taking the operational needs of different FB operators into

Action

the account, all FB operators agreed that the number of training day(s) would serve the basis of the training duration, except the on-the-wheel road training under the induction course. After deliberation, the Meeting considered that the instructor to trainee ratio varied among FB operators would affect the training intensity received by the bus captains, and agreed that number of training hours would serve the basis for the on-the-wheel road training of the induction course.

11. The Meeting noted that the objective of the refresher course was to share important and current job-related information with the in-service bus captains. CTB/NWFB clarified that they delivered refresher course in two half days, instead of one full day as proposed in the Guideline. The TD noted that the arrangements of refresher course provided by the FB operators varied. With the objective of the Guidelines to align the training system of different franchised bus operators, the TD proposed that the minimum duration of the refresher course would be half day.

12. In the last technical meeting on training arrangements for bus captains, the TD learnt from the FB operators that a bus captain might not be required to attend separate refresher course once every three years if he/she had attended other training(s) within a three-year period under the existing practice. In light that the nature of refresher training was different from other trainings and with a view to ensure bus captains receiving important and current job-related information through attending refresher course regularly, the TD was of the view that refresher course should be provided to all serving bus captains in every three years, regardless whether or not other trainings on routes, bus models or driving improvement, were provided during the period. KMB/LW had reservation to arrange all serving bus captains to attend refresher course in addition to bus route training, bus model training or ancillary trainings. In consideration of limited number of bus captains available for provision of bus services, KMB/LW expected that bus service might be affected. KMB/LW said that they would try to explore the feasibility of delivering refresher course on-site and would advise TD on the arrangement of refresher course.

KMB/LW

[Post-meeting note: Having regard to the large number of bus captians, the need to avoid bunching in bus captains for refresher training, KMB/LW proposed on 15 June 2018 to implement the proposed refresher training by phases with full implementation in three-year's time in accordance with the requirement stipulated in the proposed Guidelines. CTB/NWFB and NLB indicated that they had no problem in implementing the refresher course as proposed in the

Action

Guidelines.]

13. In connection with ancillary training for improper driving behaviour, the Meeting agreed that the minimum duration would be one day for both full-time and part-time bus captains. The Meeting noted that FB operators provided the ancillary training by different means with the common objective to rectify the improper driving behaviour of bus captains. Taking the above into the account, the Meeting agreed that FB operators could continue adopting the means of delivering the ancillary training which were considered effective. To more accurate to reflect the purpose to rectify the improper driving behaviour or attitude during the training, the TD proposed to rename it as remedial training. All FB operators welcomed the proposal.

14. Regarding the bus captains who had been abstained from driving duties for more than 30 days, all FB operators advised that driving assessments for these bus captains would be conducted in order to ensure bus captains' driving competence before assigning the bus captains to provide FB service, and the Meeting agreed that to take out these bus captains from the targets of the remedial training. That said, the TD encouraged the FB operators to provide training for bus captains who have been abstained from driving duties for a long period of time when deemed necessary.

15. The TD advised that the draft Guidelines would be revised according to the meeting discussion and would circulate to the meeting members after the meeting. TD

(Post-meeting note : The revised draft Guidelines were circulated to the FB operators on 5 June 2018. FB operators provided further textual comments on the draft Guidelines, and the latest draft of the Guidelines was at **Annex B**.)

16. As a part of the Guidelines, all FB operators were requested to have an internal monitoring and audit mechanism with the objectives to (i) monitor the compliance of the Guidelines, (ii) develop key indicators on the effectiveness of the training system provided to bus captains, and (iii) review and determine appropriate actions or measures in light of the findings of the indicators. The TD pointed out that regular periodic reports (e.g. at least half-yearly) in respect of the findings should be submitted to their respective Boards of Directors with the purpose to allow the Government representatives in the Board to oversee the bus captains' training regularly. All FB operators were

All FB
operators

Action

requested to bring this up to their respective management on the requirements to develop an internal monitoring and audit mechanism with a view to submitting their internal monitoring and audit mechanism by end of June 2018 for record with the target effective date of the mechanism in the fourth quarter of 2018.

17. There being no other business, the meeting adjourned at 5:00 p.m..

Guidelines on Training for Franchised Bus Captains**(A) Structure of training system**

1. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of courses | Minimum Duration | Target Trainees ⁽¹⁾ | Timing |
|---|---|---------------------------------------|---|
| (a) Induction course | | New recruits | Before providing passenger service |
| (i) Classroom training | 1 day (Full-time) & 0.5 day (Part-time) | | |
| (ii) On-the-wheel route training | <u>Full-time bus captains</u> 5 – 15 days, subject to the ‘instructor to trainee’ ratio ⁽²⁾ <u>Part-time bus captains</u> 4 days at an ‘instructor to trainee’ ratio of 1:2 | | |
| (b) Refresher course (classroom training) | 1 day | In-service captains | Once in every three years |
| (c) New bus route training | On-the-wheel training before revenue trip | In-service captains | Before the bus captain is assigned to provide service |
| (d) New bus type (model with new driving features) training | On-the-wheel training before revenue trip | In-service captains | Before the bus captain is assigned to provide service |
| (e) Ancillary training | | In-service captains | As and when required |
| (i) On-the-wheel and classroom training for bus captains with improper driving behavior or attitude | 1 day | | |
| (ii) On-the-wheel training for bus captains have been abstained from driving duties for more than 30 consecutive days | 0.5 day | | |

Note (1) : Applicable to full-time and part-time bus captains.

Note (2) : The minimum training days for ‘instructor to trainee’ ratios of 1:2, 1:3, 1:4, and 1:5 will be 8, 10, 13 and 15 respectively. There is an exception for New Lantau Bus Co. Ltd. (NLB) whose minimum training days for its new full-time bus captains is 5 days at an ‘instructor to trainee’ ratio of 1:2, in the light of its much smaller and confined bus routeings and networks mostly within Lantau.

(B) Modules for Induction and Refresher Courses

2. During the induction course, both on-the-wheel route training and classroom training are provided. The following Modules are covered in both classroom and on-the-wheel route training. While route training enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it also covers the following modules in a practical ways with on-the-ground experiences. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course | Weightings in refresher course |
|---|--------------------------------|--------------------------------|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/ facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

(C) Ancillary Training requirements

3. The following bus captains should be refrained from delivering any driving duty until they have at least attended and completed the ancillary training satisfactorily :-
- (a) with improper driving behaviour detected from black box data or other sources like plain-cloth inspections, irrespective such driving behavior leads to incurrence of any driving offence points ("DOPs"); or
 - (b) having involved in serious accidents; or
 - (c) having persistently committed same traffic offence; or
 - (d) having reached a certain DOPs (say, 8 DOPs or above).

(D) Internal Monitoring and Audit Mechanism by FB Operators

4. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :
 - (a) To monitor the compliance of this Training Guidelines;
 - (b) To develop key indicators on the effective of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
 - (c) In the light of the findings of (b), to review and determine appropriate actions or measures.
5. The management of FB Operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Board of Directors in respect of the findings on matters in para. 4 above.

Transport Department

June 2018

Guidelines on Training for Franchised Bus Captains**(A) Structure of training system**

1. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of Courses | Minimum Duration | Target Trainees ⁽²⁾ | Timing |
|---|--|--|---|
| (a) Induction course | 1 day (Full-time) & 0.5 day (Part-time) | New recruits | Before providing passenger service |
| (i) Classroom training | | | |
| (ii) Behind-the-wheel road training | <u>Full-time bus captains</u> 20 hours ⁽¹⁾ <u>Part-time bus captains</u> 16 hours ⁽¹⁾ | | |
| (b) Refresher course | 0.5 day | In-service bus captains | Once in every three years |
| (c) New bus route training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (d) New bus type (model with new driving features) training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (e) Remedial training | 1 day | In-service bus captains with improper driving behavior or attitude | As and when required |

Notes :

(1) After the behind-the-wheel road training, the bus captains will be subject to internal driving assessment. The bus captains must pass the internal driving assessment before they are deployed on revenue trips.

(2) Applicable to full-time and part-time bus captains.

(B) Modules for Induction and Refresher Courses

2. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course (Classroom and Behind-the-wheel Road Training ⁽³⁾) | Weightings in refresher course (Classroom) |
|---|---|--|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

Notes :

- (3) While behind-the-wheel road training provided during induction course enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it also covers the abovementioned modules in a practical ways with on-the-ground experiences.

(C) Remedial Training

3. The following bus captains should be required to attend and complete the remedial training :-
- (a) with improper driving behaviour repeatedly detected from black box data or other sources like plain-cloth inspections; or
 - (b) having involved in serious traffic accidents; or
 - (c) having persistently committed same traffic offence; or
 - (d) having reached a certain driving offence points ("DOPs") (say, 8 DOPs or above).

(D) Internal Monitoring and Audit Mechanism by Franchised Bus Operators

4. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :
 - (a) To monitor the compliance of this Training Guidelines;
 - (b) To develop key indicators on the effectiveness of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
 - (c) In the light of the findings of (b), to review and determine appropriate actions or measures.
5. The management of Franchised Bus Operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Boards of Directors in respect of the findings on matters in para. 4 above.

Transport Department

June 2018

**Working Group on
Enhancement of Safety of Franchised Buses**

**Notes of 3rd Meeting held on 21 June 2018 at 2.00 p.m.
at Room 4110A, 41/F, Immigration Tower, Wan Chai**

Present:

Convener

| | | |
|----|-----------------|---|
| TD | Ms. Macella LEE | Deputy Commissioner for Transport/Transport Services and Management |
|----|-----------------|---|

Members – TD

| | | |
|------|------------------|---|
| ALB | Mr. YK CHAN | Assistant Commissioner for Transport /Administration and Licensing |
| | Mr. William SHUM | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standard |
| | Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| | Mr. Danny CHAN | Engineer/Bus Safety |
| BRB | Mr. Patrick WONG | Assistant Commissioner for Transport /Bus and Railway |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |
| RSSD | Mr. Tony YAU | Chief Engineer/Road Safety and Standards |
| | Mr. Gary WONG | Senior Engineer/Road Safety 2 |

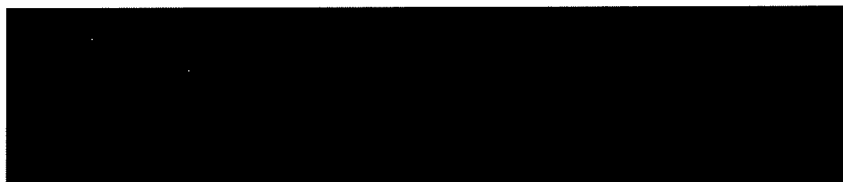
Members – Bus Operators

| | | |
|--------|-----------------------|---|
| KMB/LW | Mr. Godwin SO | General Manager, Corporate Planning & Business Development |
| | Mr. LEUNG Kin Wang | Operations Director |
| | Mr. James WONG | Head of Training and Quality Assurance Department |

CTB/NWFB



NLB

Note-taker

TD

Miss Natalie YU

Senior Transport Officer/Railway 6

ActionDISCUSSION**(A) Confirmation of notes of meeting**

The Convener advised that the revised draft notes of the last meeting had been circulated to Members incorporating comments from Members. As Members did not have further amendments, the Meeting confirmed the notes of the last meeting.

(B) Progress of the discussions of the following items discussed in respective technical meetings and proposed way forward**(i) Training arrangements for bus captains**

2. A set of guidelines (which was subsequently turned into a practice note) on training arrangements for the bus captains were fully deliberated in the previous working group meetings and agreed at the technical group meeting on 4 June. Having regard to the large number of bus captains of KMB/LW, there would be a need to avoid bunching in bus captains for refresher training, the proposed refresher course would be implemented by phases with full implementation in three-year's time in accordance with the requirement. The Meeting agreed that to start implementing their training with reference to the practice note by phases starting from October 2018. The TD also reminded that, as agreed at the last technical meeting, all franchised bus ("FB") operators should submit their internal monitoring and audit mechanism by end of June or early July 2018.

All FB operators

(Post-meeting note : The TD circulated the agreed Practice Note on Training Framework for Franchised Bus Captains at Annex A to all FB operator for implementation on 29 June 2018.)

3. In addition to the training courses, the TD explored with all FB operators on any other alternative training measures with an aim to

enhance bus captains' training on driving such as driving simulators internet training, and contracting out bus captains' training.

Action

4. [REDACTED]

[REDACTED] KMB/LW replied that they had deployed driving simulators from 2007 to 2015, and opinion from their senior driving instructors that simulator training was not an essential element and could be replaced by more on-road training, and most of the users of their simulators reflected that they felt dizzy after using the driving simulator. Taking this opinion into the account, KMB/LW indicated that they have conducted more on-road training instead of deploying driving simulator from 2015.

5. [REDACTED]

[REDACTED] The TD welcomed the initiative and suggested other FB operators to explore the use of virtual reality simulator as appropriate.

All FB operators

6. As for internet training, KMB/LW currently incorporated internet training as a part of their induction course. [REDACTED]

[REDACTED] The TD encouraged all FB operators to make use of intranet as a training channel to deliver safety awareness messages to bus captains.

All FB operators

7. [REDACTED]

[REDACTED] That said, they would continue to encourage their bus captains to join the road safety seminars organized by the TD. [REDACTED]

8. The Meeting also noted that the FB operators had an on-going practice to put up notices and posters in order to keep up bus captains' safety awareness. All FB operators were encouraged to continue the practice to enhance safety awareness of the bus captains.

All FB operators

Action**(ii) Installation of in-vehicle safety device**

9. With the help of a summary table at **Annex B**, the meeting discussed the feasibility and desirability of installing seat belts on all passenger seats and other in-vehicle safety devices on FBs was tabled to facilitate members' discussion. The main points raised at the meeting were set out below.

(a) General

10. The Meeting had discussed and reached an agreed views that that in order to enable the FB operators to step up their management and control of their bus fleet, and reduce the potential risks arising from human errors or effect of careless / dangerous driving behaviour, any new on-vehicle safety technology which can assist the FB operators and drivers to enhance safety should be actively explored. Generally, the FB operators agreed to explore sources of supply of the appropriate safety devices/technology and launch trials with a view to establish the technical and operational feasibility of such technology. Without appropriate trials, it was difficult to prove to the travelling public the technical feasibility or infeasibility in adopting the new technology. The Meeting well noted that extended application of certain technologies/devices to part of whole bus fleet had to be very carefully studied having regard to their technical and operational feasibility, cost-effectiveness, as well as commercial viability.

(b) Bus monitoring and control system ("BMCS")

11. In view of the latest technology development in bus fleet management system and black box with functions on real time fleet supervision, estimated time of bus arrival or departure, bus speed recording, GPS location recording, etc., the TD proposed that a BMCS, an integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology, should be considered, developed or deployed by all FB operators, and suggested all FB operators to carry out trials on the BMCS by phases.

12. Upon the FB operators' enquiry, the TD clarified that Phase 1 trial aimed to conduct trial on BMCS with positioning function, operational information (such as vehicle speed, brake status, deceleration, etc.) monitoring function and geo-fencing technology for fleet management to achieve detection of over speeding and provide real time alert to the bus captains. Subject to the successful

development of the Phase 1 trial and successful development of speed limiter with variable speed limiting function, Phase 2 trial would be conducted with the BMCS developed in Phase 1 incorporated with additional application of speed limiter of enhanced design being developed by bus manufacturers for compliance with respective speed limits of different road sections.

13. [REDACTED]

The TD noted and replied that reference would be made to other international standards and bus manufacturers' proposals to approve the relevant device. The TD added that without knowing how the device would work during trials with details, it was difficult to evaluate the implications, and hence the TD stressed that the purpose of conducting trials was to find out the technical feasibility and implications.

14. After deliberation, all FB operators were committed to embark Phase 1 trial by end of 2018 on selected routes. Subject to the trial results of Phase 1 and the development of speed limiter with variable speed limiting function to achieve 2-speed limiting function, all FB operators agreed to set the working target for embarking the Phase 2 trial within 2019.

All FB
operators

15. The Meeting concluded that it would be a medium-term goal for FB operators to develop a comprehensive BMCS with the objective to enable all FB operators to monitor their bus fleet closely and to take appropriate management action against over bus captains' malpractice, such as speeding.

(b) Electronic stability control ("ESC") and retarders for capping the maximum speed of the speed limiter on downhill ("speed limiting retarder")

16. Having deliberated in the previous working group meetings and technical meetings, the Meeting noted that all FB operators agreed that all new buses would be incorporated with ESC and speed limiting retarder. All FB operators also agreed to retrofit ESC and speed limiting retarder on the existing buses¹, subject to the satisfactory development results of these devices for retro-fitting on the existing bus models, the retrofitting proposal from the bus manufacturers and

All FB
operators

¹ Existing buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI.

Action

the commercial viability. The Meeting hence recommended that all FB operators should liaise with and commission the bus manufacturers on the development of these devices with the working target to commence the trials/tests of the devices and retrofitting work in about 12 to 18 months, that is within 2019.

(c) Collision alert/ lane keeping devices

17. [REDACTED] The Meeting also noted that these five buses would also be deployed to operate revenue trips. [REDACTED]

18. The TD pointed out that there were similar devices available in the market. [REDACTED]

(d) Driving monitoring device

19. The Meeting noted that KMB/LW had already embarked a trial on driving monitoring device on a couple of buses. The TD requested KMB/LW to share the results of the trial with the TD and other FB operators. [REDACTED]

(e) Speed display unit ("SDU") in passenger compartment

20. In order to provide visual display of the current speed of FBs to the passengers on-board, the proposal for installation SDUs in passenger compartments of FBs was explored.

21. The TD advised all FB operators on the analysis of the public light buses' ("PLBs") involvement rates upon the launch of the speed display device ("SDD") installation since 2002. The statistics analysis was based on limited available information as the installation date of the SDD in each PLB was not available as there was no legal requirement for PLB operators to report this to the TD. Limited by the availability of data, and considering the possibility that other factors might have an effect on the number of accidents involving PLBs during the period, conducting any statistical analysis for

drawing a conclusive statement merely on the effect of the installation of SDDs on the accident rate was not conceivable.

Action

22. 

KMB/LW also expressed that the SDU would intensify the conflict between bus captains and passengers and that there was no correlation between SDU and accident in the case of PLBs with reference to the information orally provided by the TD in the Meeting. Therefore, all FB operators had reservations to install SDU on FBs.

23. After some discussions, the Meeting generally concluded that the SDU might not be conducive to safety if passengers were playing an active monitoring role. The FB operators should focus on the development and trials of the BMCS instead, which was a more effective total solution for monitoring the bus operation, managing and control their fleet as well as speeding and other driving mis-behavior of bus captains.

24. The TD, however, added that, as the Government, it was also necessary for the TD to gather views of the driver unions and the public/passengers as a whole. The TD, in conjunction with the bus companies, should examine how best we could deliver the above views to the public.

The TD and
all FB
operators

(iii) Installation of seat belts on all seats other than exposed seats

25. The Meeting noted that it was technically feasible to supply all new buses with seat belts for all passenger seats conforming to relevant international standards and all FB operators committed that all new FBs would be incorporated with seat belts on all passengers seats.

26. As for existing buses¹, the Meeting noted that retrofitting seat belts on all passenger seats of the upper deck of some existing double-deck bus models should be feasible. KMB/LW advised that they would retrofit seat belts on all passenger seats of the upper deck or deploy buses with seat belts on all passenger seats on routes which

Action

serve long haul passengers or are operated on expressways with limited boarding or alighting activities at the enroute stops.

[Post-meeting note: KMB/LW advised that there would be about 400 new buses with seat belts on all passengers seats by mid-2019. KMB/LW would deploy these buses to the required routes. Retrofitting seat belts to existing buses would depend on the actual situation/ requirement at that moment.]

27. In the light of KMB/LW's initiative, the Meeting had discussed and come to the views that having regard to the technical feasibility in retrofitting seat belts on existing buses; operation of FBs in Hong Kong which were mostly deployed on urban routes with standing passengers; and the costs and downtime incurred to retrofit seat belts on all existing buses, as well as overseas experiences, that there were insufficient justifications to make it a mandatory requirement for all buses to be fitted with seat belts on all passenger seats. Nevertheless, Members reckoned that as in the case of exposed seats and in bus compartment with no standees allowed, seat belts might give extra protection to seated passengers to prevent passengers from falling out from these seats.

28.



29.



30. The Meeting agreed that it was worth exploring in more details in conjunction with the major bus manufacturers to ascertain the technical feasibility of retrofitting seat belts on the upper deck of different bus models, the operational and capacity constraints, and the timetable for completing the retrofitting works on all suitable buses for

deployment on suitable routes, as well as the commercial viability

Action

31. In this connection, the TD requested all FB operators to estimate the number of long-haul bus routes operating via expressway with relatively fewer bus stops and the corresponding number of buses involved, and provide the information to the TD for reference the soonest possible.

All FB operators

32. The TD would revise the summary table reflecting the discussions and provide to all FB operators for further comments.

[Post-meeting notes: The TD revised the summary table and sent to all FB operators twice for further comments on 22 June and 5 July 2018. The summary table with consolidation with FB operators' comments (Annex C) was emailed to all FB operators on 9 July 2018 for record.]

(C) ISO 39001 - Road Traffic Safety Management System

33. The Meeting noted that each bus operator had its own system in safety management.

34. The Meeting noted that there was an international management standard for Road Traffic Safety, i.e. ISO 39001 - Road Traffic Safety Management System that was launched in 2014. While all FB operators advised that they had developed their own management systems which enabled them to manage FB operations in a safe manner, all FB operators were request to make comparison between their own management system and the ISO 39001 or other similar management systems in the market, and to report findings, including but not limited to, organization and details of the existing safety management systems in their respective companies with improvement measures, if any, by end of October 2018.

All FB operators

(D) Preparation of a report for the Working Group

35. The Convener thanked the members' valuable contributions

to the discussions at working group meetings and technical meetings, and advised the members that the TD would start preparing the report with recommendations based on the information deliberated at the meetings. All FB operators were invited to note that the Working Group recommendations would be submitted to Legislative Council Panel on Transport and the information could be accessed by the members of public.

(E) Any other business

36. There being no other business, the meeting adjourned at 4.30 p.m.

Action

Practice Note on Training Framework for Franchised Bus Captains

Introduction

This paper sets out the “Practice Note on Training Framework for Franchised Bus Captains” (the “Practice Note”) to be promulgated for reference and adoption by the franchised bus operators.

Objectives of the Practice Note

2. With a view to enhancing safety delivery in the franchised bus services, the Transport Department (“TD”) has, after reviewing the franchised bus operators’ training arrangements for bus captains, sought to lay down a set of industry-wide standard practices in respect of the franchised bus captains’ training framework, including the basic requirements on modules, duration and weighting, so as to provide a common basis for internal monitoring and audit within individual franchised bus companies.

3. The objective of the Practice Note is to align the training arrangements of different franchised bus operators and to lay down a common framework of the training system for their bus captains. Given that different bus companies have different bus networks operating in different operating environment, it is necessary for them to make specific training programmes in order to suit their respective operational needs on the basis of the common standard as set out in this Practice Note. The TD will review the Practice Note with the franchised bus operators on a regular basis, in order to strive for the best standard practices to cater for the ever-changing operating needs and public expectations on safe franchised bus services.

The Practice Note

(A) Structure of training system

4. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of Courses | Minimum Requirement | Target Trainees ⁽²⁾ | Timing |
|---|--|--|---|
| (a) Induction course | 1 day (Full-time) & 0.5 day (Part-time) | New recruits | Before providing passenger service |
| (i) Classroom training | | | |
| (ii) Behind-the-wheel road training | <u>Full-time bus captains</u> 20 hours ⁽¹⁾ <u>Part-time bus captains</u> 16 hours ⁽¹⁾ | | |
| (b) Refresher course | 0.5 day | In-service bus captains | Once in every three years |
| (c) New bus route training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (d) New bus type (model with new driving features) training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (e) Remedial training | 1 day | In-service bus captains with improper driving behavior or attitude | As and when required |

Notes :

(1) After the behind-the-wheel road training, the bus captains will be subject to internal driving assessment. The bus captains must pass the internal driving assessment before they are deployed on revenue trips.

(2) Applicable to full-time and part-time bus captains.

(B) Modules for Induction and Refresher Courses

5. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course (Classroom and Behind-the-wheel Road Training ⁽³⁾) | Weightings in refresher course (Classroom) |
|---|--|---|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

Notes :

- (3) While behind-the-wheel road training provided during induction course enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it should also cover the contents of the modules to be delivered in a practical way with on-the-ground experiences.

(C) Remedial Training

6. Remedial training should be provided to those bus captains in the following categories :-

- (a) with improper driving behaviour repeatedly detected from black box data or other sources like plain-cloth inspections;
- (b) having involved in serious traffic accidents;
- (c) having persistently committed the same traffic offence; or
- (d) having reached a certain driving offence points.

(D) Internal Monitoring and Audit Mechanism by Franchised Bus Operators




7. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :

- (a) To monitor the compliance of this Practice Note;
- (b) To develop key indicators on the effectiveness of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
- (c) In the light of the findings of (b), to review and determine appropriate actions or measures.




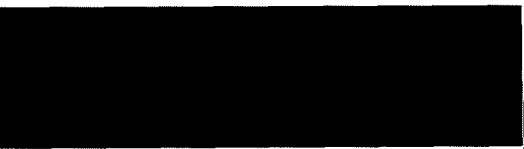

8. The management of franchised bus operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Boards of Directors in respect of the findings on matters in para. 7 above.

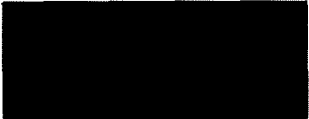


Transport Department
June 2018

**Discussion on the Feasibility and Desirability of
Installing Seat Belts on All Passenger Seats and Other On-vehicle Safety Devices on Franchised Buses
(as at 21 June 2018)**


| Proposal | WG's Recommendations | Target Timeframe |
|---|---|--|
| <p>(1) Bus monitoring & control system (BMCS) [An integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology]</p> <ul style="list-style-type: none"> ● <u>Phase 1</u> BMCS with positioning function, operational information monitoring function and geo-fencing technology for fleet management ● <u>Phase 2</u> BMCS with full functions | <ul style="list-style-type: none"> ● KMB/LW were conducting trial with a bus manufacturer to test the speed limiting by GPS ● All FB operators would develop this technology for their bus fleet monitoring & speed control system ● Phase 1 trial will include 2 routes. | <ul style="list-style-type: none"> ● Phase 1 trial to be embarked by end 2018 ● Phase 2 trial to be embarked within 2019 |
| <p>(2) Electronic stability control ("ESC") and Roll stability control ("RSC")</p> | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● All FB operators agreed that all new buses will be incorporated with ESC <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● Subject to the development result of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation on all buses | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivery from Jan 2019 ●  ●  <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● To complete the retrofitting within  years |

¹ Existing Buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI

| Proposal | WG's Recommendations | Target Timeframe |
|--|--|--|
| (3) Capping the maximum speed at 70 km/hour on downhill by the speed limiter | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● FB operators agreed that all new buses will be incorporated with this device. <p><u>Existing Buses</u>¹</p> <ul style="list-style-type: none"> ● Subject to the development result of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation. | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivery from Jan 2019 ●  <p><u>Existing Buses</u>¹</p> <ul style="list-style-type: none"> ● To complete the retrofitting within  years |
| (4) Collision prevention and lane keeping devices | <ul style="list-style-type: none"> ●  ● KMB/LW will explore similar devices from different suppliers and embark on a trial. | <ul style="list-style-type: none"> ● To embark the trial by end 2018. |
| (5) Driver monitoring device | <ul style="list-style-type: none"> ● KMB/LW will embark a trial on this device. ●  | <ul style="list-style-type: none"> ● To embark the trial in late June 2018. ●  |
| (6) Speed display unit ("SDU") in passenger | Subject to consultation, all FB operators are | <ul style="list-style-type: none"> ● To complete the installation within [x] years |

| Proposal | WG's Recommendations | Target Timeframe |
|--|---|---|
| compartment | required to install the SDU for all buses | |
| (7) Seat belts for all passenger seats | <p><u>New Buses</u> All FB operators agreed that all new buses will be incorporated with seat belts.</p> <p><u>Existing Buses¹</u> KMB/LW will retrofit seat belts phase by phase for specific routes</p>  | <p><u>New Buses</u></p> <ul style="list-style-type: none"> • KMB/LW : with buses delivery from Jul 2018 •  •  <p><u>Existing Buses¹</u></p> |

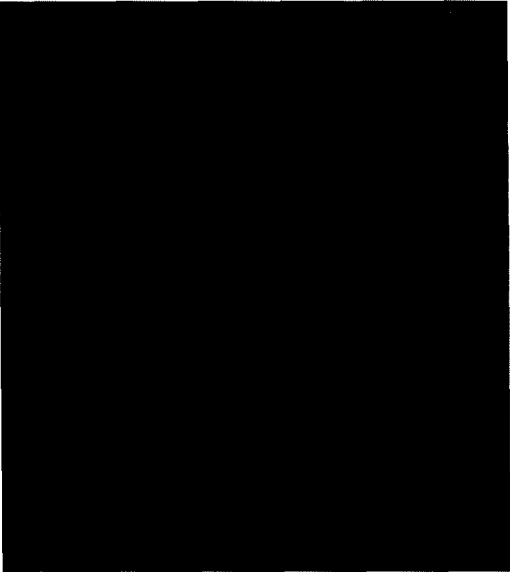
Recommendations of
Installing Seat Belts on All Passenger Seats and Other On-vehicle Safety Devices and Technologies on Franchised Buses
(as at 9 July 2018)

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|--|---|
| <p>(1) Bus monitoring & control system (BMCS) An integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology</p> <ul style="list-style-type: none"> ● <u>Phase 1</u> BMCS with positioning function, operational information (such as vehicle speed, brake status, deceleration, etc.) monitoring function and geo-fencing technology for fleet management to achieve detection of overspeeding and provide real time alert to the bus captains ● <u>Phase 2</u> BMCS to utilize the functions developed in Phase 1 together with the 2-speed active speed limiting function being developed by bus manufacturers to achieve automatic speed limiting functions (50km/hr or 70km/hr depending on the speed limit of road section) | <ul style="list-style-type: none"> ● KMB/LW were conducting trial with a bus manufacturer to test the speed limiting by GPS ● All FB operators would develop and trial the application of GPS technology for their bus fleet monitoring & speed control system ● Phase 1 trial on the application of GPS will include at least 2 routes for each FB operator. | <ul style="list-style-type: none"> ● Phase 1 trial to be embarked by end 2018 ● Phase 2 trial to be embarked within 2019, subject to the satisfactory trial result of Phase 1 and the satisfactory development of device with variable speed limiting function to achieve 2-speed limiting functions. |
| <p>(2) Electronic stability control ("ESC") and Roll stability control ("RSC")</p> | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● All FB operators agreed that all new double-deck buses will be incorporated with ESC | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivered from Jan 2019 ●  |

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|--|--|---|
| | <p><u>Existing Buses</u>¹</p> <ul style="list-style-type: none"> Subject to the satisfactory development result and the commercial viability of the device for the existing double-deck bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation on all double-deck buses | <ul style="list-style-type: none"> [REDACTED] |
| (3) Capping the maximum speed at 70 km/hour on downhill by the speed limiter | <p><u>New Buses</u></p> <ul style="list-style-type: none"> FB operators agreed that all new buses will be incorporated with this device. <p><u>Existing Buses</u>¹</p> <ul style="list-style-type: none"> Subject to the satisfactory development result and the commercial viability of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation. | <p><u>New Buses</u></p> <ul style="list-style-type: none"> KMB/LW : with buses delivered from Jan 2019 [REDACTED] [REDACTED] |
| (4) Collision alert/ lane keeping devices | <ul style="list-style-type: none"> [REDACTED] | <ul style="list-style-type: none"> To embark the trial by end 2018. |

¹ Existing Buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI buses

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|--|--|
| | <ul style="list-style-type: none"> KMB/LW and NLB will explore similar devices from different suppliers and embark on a trial. | |
| (5) Driver monitoring device | <ul style="list-style-type: none"> KMB/LW will embark a trial on this device on 4 buses. [REDACTED] | <ul style="list-style-type: none"> To embark the trial in Q3 2018. [REDACTED] |
| (6) Speed display unit ("SDU") in passenger compartment | Though all FB operators did not agree to install SDU, TD requested all FB operators to consider installing the SDU for all buses and to consult with the unions. | |
| (7) Seat belts for all passenger seats | <p><u>New Buses</u></p> <ul style="list-style-type: none"> All FB operators agreed that all new buses will be incorporated with seat belts. <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> KMB/LW will retrofit seat belts on upper deck passenger seats only or deploy buses with seat belts on all passenger seats on routes which serve long haul passengers or are operated on expressways with limited boarding or | <p><u>New Buses</u></p> <ul style="list-style-type: none"> KMB/LW : with buses delivery from Jul 2018 [REDACTED] <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> All FB operators will provide the estimated no. of buses involved, cost implication and timeframe for retrofit |

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|--|------------------|
| | <p>alighting activities at the enroute stops.</p> <ul style="list-style-type: none">  All bus operators will provide the estimated no. of buses involved in bus routes serving long haul passengers, or operating on expressways with limited boarding or alighting activities at the enroute stops, cost implication and timeframe for the retrofitting seat belts on all upper deck seats. | |

[Blank Page]

**Working Group on
Enhancement of Safety of Franchised Buses**

**Notes of 3rd Meeting held on 21 June 2018 at 2.00 p.m.
at Room 4110A, 41/F, Immigration Tower, Wan Chai**

Present:

Convener

| | | |
|----|-----------------|---|
| TD | Ms. Macella LEE | Deputy Commissioner for Transport/Transport Services and Management |
|----|-----------------|---|

Members – TD

| | | |
|------|------------------|---|
| ALB | Mr. YK CHAN | Assistant Commissioner for Transport /Administration and Licensing |
| | Mr. William SHUM | Chief Electrical and Mechanical Engineer/Vehicle Safety and Standard |
| | Mr. Jimmy YEUNG | Senior Engineer/Vehicle Safety |
| | Mr. Danny CHAN | Engineer/Bus Safety |
| BRB | Mr. Patrick WONG | Assistant Commissioner for Transport /Bus and Railway |
| | Ms. Amy LEE | Chief Transport Officer/Special Duties |
| RSSD | Mr. Tony YAU | Chief Engineer/Road Safety and Standards |
| | Mr. Gary WONG | Senior Engineer/Road Safety 2 |

Members – Bus Operators

| | | |
|----------|-----------------------|---|
| KMB/LW | Mr. Godwin SO | General Manager, Corporate Planning & Business Development |
| | Mr. LEUNG Kin Wang | Operations Director |
| | Mr. James WONG | Head of Training and Quality Assurance Department |
| CTB/NWFB | Mr. William CHUNG | Head of Operations |
| | Mr. Paul LI | Head of Engineering |
| | Mr. Vincent FUNG | Senior Operations Manager |

| | | |
|-----|-------------------|--------------------------------------|
| NLB | Mr. Timothy WONG | Director |
| | Mr. Patrick YEUNG | Head of Service and Training |
| | Mr. Billy WONG | Assistant Manager, Operation Support |

Note-taker

| | | |
|----|-----------------|------------------------------------|
| TD | Miss Natalie YU | Senior Transport Officer/Railway 6 |
|----|-----------------|------------------------------------|

Action

DISCUSSION

(A) Confirmation of notes of meeting

The Convener advised that the revised draft notes of the last meeting had been circulated to Members incorporating comments from Members. As Members did not have further amendments, the Meeting confirmed the notes of the last meeting.

(B) Progress of the discussions of the following items discussed in respective technical meetings and proposed way forward

(i) Training arrangements for bus captains

2. A set of guidelines (which was subsequently turned into a practice note) on training arrangements for the bus captains were fully deliberated in the previous working group meetings and agreed at the technical group meeting on 4 June. Having regard to the large number of bus captains of KMB/LW, there would be a need to avoid bunching in bus captains for refresher training, the proposed refresher course would be implemented by phases with full implementation in three-year's time in accordance with the requirement. The Meeting agreed that to start implementing their training with reference to the practice note by phases starting from October 2018. The TD also reminded that, as agreed at the last technical meeting, all franchised bus ("FB") operators should submit their internal monitoring and audit mechanism by end of June or early July 2018.

All FB
operators

(Post-meeting note : The TD circulated the agreed Practice Note on Training Framework for Franchised Bus Captains at **Annex A** to all FB operator for implementation on 29 June 2018.)

3. In addition to the training courses, the TD explored with all FB operators on any other alternative training measures with an aim to

enhance bus captains' training on driving such as driving simulators internet training, and contracting out bus captains' training.

Action

4. Upon TD's enquiry on the application of driving simulator as part of their training, CTB/NWFB said that they learnt that simulator was deployed for driving training in Singapore. KMB/LW replied that they had deployed driving simulators from 2007 to 2015, and opinion from their senior driving instructors that simulator training was not an essential element and could be replaced by more on-road training, and most of the users of their simulators reflected that they felt dizzy after using the driving simulator. Taking this opinion into the account, KMB/LW indicated that they have conducted more on-road training instead of deploying driving simulator from 2015.

5. Provided that the cost for virtual reality simulator was relatively low and it also allowed higher flexibility compared to the traditional simulator, NLB said that they planned to explore the use of virtual reality simulator for bus captains to enhance their ability to handle emergency situations that might be encountered during bus operations. The TD welcomed the initiative and suggested other FB operators to explore the use of virtual reality simulator as appropriate.

All FB
operators

6. As for internet training, KMB/LW currently incorporated internet training as a part of their induction course. CTB/NWFB said that they uploaded training videos onto the intranet while NLB said that they disseminated messages to bus captains directly by use of instant message app. The TD encouraged all FB operators to make use of intranet as a training channel to deliver safety awareness messages to bus captains.

All FB
operators

7. The Meeting noted that CTB/NWFB and KMB/LW delivered their bus captain training courses through in-house instructors, and had no plan to outsource their trainings to other institutions. That said, they would continue to encourage their bus captains to join the road safety seminars organized by the TD. NLB supplemented that they had once engaged an external organization, viz. Institute of Advanced Motorists, for delivering safety talks/seminars to their bus captains, but such engagement had stopped as the company had been developing their own in-house training arrangement.

8. The Meeting also noted that the FB operators had an on-going practice to put up notices and posters in order to keep up bus captains' safety awareness. All FB operators were encouraged to continue the practice to enhance safety awareness of the bus captains.

All FB
operators

Action**(ii) Installation of in-vehicle safety device**

9. With the help of a summary table at **Annex B**, the meeting discussed the feasibility and desirability of installing seat belts on all passenger seats and other in-vehicle safety devices on FBs was tabled to facilitate members' discussion. The main points raised at the meeting were set out below.

(a) General

10. The Meeting had discussed and reached an agreed views that that in order to enable the FB operators to step up their management and control of their bus fleet, and reduce the potential risks arising from human errors or effect of careless / dangerous driving behaviour, any new on-vehicle safety technology which can assist the FB operators and drivers to enhance safety should be actively explored. Generally, the FB operators agreed to explore sources of supply of the appropriate safety devices/technology and launch trials with a view to establish the technical and operational feasibility of such technology. Without appropriate trials, it was difficult to prove to the travelling public the technical feasibility or infeasibility in adopting the new technology. The Meeting well noted that extended application of certain technologies/devices to part of whole bus fleet had to be very carefully studied having regard to their technical and operational feasibility, cost-effectiveness, as well as commercial viability.

(b) Bus monitoring and control system ("BMCS")

11. In view of the latest technology development in bus fleet management system and black box with functions on real time fleet supervision, estimated time of bus arrival or departure, bus speed recording, GPS location recording, etc., the TD proposed that a BMCS, an integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology, should be considered, developed or deployed by all FB operators, and suggested all FB operators to carry out trials on the BMCS by phases.

12. Upon the FB operators' enquiry, the TD clarified that Phase 1 trial aimed to conduct trial on BMCS with positioning function, operational information (such as vehicle speed, brake status, deceleration, etc.) monitoring function and geo-fencing technology for fleet management to achieve detection of over speeding and provide real time alert to the bus captains. Subject to the successful

Action

development of the Phase 1 trial and successful development of speed limiter with variable speed limiting function, Phase 2 trial would be conducted with the BMCS developed in Phase 1 incorporated with additional application of speed limiter of enhanced design being developed by bus manufacturers for compliance with respective speed limits of different road sections.

13. CTB/NWFB raised concerns on the legal implication when the automatic speed limiting function involving the application of braking system or other speed reduction device. The TD noted and replied that reference would be made to other international standards and bus manufacturers' proposals to approve the relevant device. The TD added that without knowing how the device would work during trials with details, it was difficult to evaluate the implications, and hence the TD stressed that the purpose of conducting trials was to find out the technical feasibility and implications.

14. After deliberation, all FB operators were committed to embark Phase 1 trial by end of 2018 on selected routes. Subject to the trial results of Phase 1 and the development of speed limiter with variable speed limiting function to achieve 2-speed limiting function, all FB operators agreed to set the working target for embarking the Phase 2 trial within 2019.

All FB
operators

15. The Meeting concluded that it would be a medium-term goal for FB operators to develop a comprehensive BMCS with the objective to enable all FB operators to monitor their bus fleet closely and to take appropriate management action against over bus captains' malpractice, such as speeding.

(b) Electronic stability control ("ESC") and retarders for capping the maximum speed of the speed limiter on downhill ("speed limiting retarder")

16. Having deliberated in the previous working group meetings and technical meetings, the Meeting noted that all FB operators agreed that all new buses would be incorporated with ESC and speed limiting retarder. All FB operators also agreed to retrofit ESC and speed limiting retarder on the existing buses¹, subject to the satisfactory development results of these devices for retro-fitting on the existing bus models, the retrofitting proposal from the bus manufacturers and

All FB
operators

¹ Existing buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI.

the commercial viability. The Meeting hence recommended that all FB operators should liaise with and commission the bus manufacturers on the development of these devices with the working target to commence the trials/tests of the devices and retrofitting work in about 12 to 18 months, that is within 2019.

Action

(c) Collision alert/ lane keeping devices

17. With regard to the installation of collision alert/ lane keeping devices, CTB/NWFB said that they would trial a device of this function in five buses for training and assessment purposes. The Meeting also noted that these five buses would also be deployed to operate revenue trips. The TD requested CTB/NWFB to share with the TD and other FB operators on the results of the trial in due course.

CTB/NWFB

18. The TD pointed out that there were similar devices available in the market. KMB/LW and NLB agreed to explore similar devices from different suppliers and embark a trial, if feasible.

KMB/LW &
NLB

(d) Driving monitoring device

19. The Meeting noted that KMB/LW had already embarked a trial on driving monitoring device on a couple of buses. The TD requested KMB/LW to share the results of the trial with the TD and other FB operators. CTB/NWFB and NLB were also requested to explore similar devices from different suppliers and embark a trial, if feasible.

KMB/LW
CTB/NWFB
& NLB

(e) Speed display unit ("SDU") in passenger compartment

20. In order to provide visual display of the current speed of FBs to the passengers on-board, the proposal for installation SDUs in passenger compartments of FBs was explored.

21. The TD advised all FB operators on the analysis of the public light buses' ("PLBs") involvement rates upon the launch of the speed display device ("SDD") installation since 2002. The statistics analysis was based on limited available information as the installation date of the SDD in each PLB was not available as there was no legal requirement for PLB operators to report this to the TD. Limited by the availability of data, and considering the possibility that other factors might have an effect on the number of accidents involving PLBs during the period, conducting any statistical analysis for

Action

drawing a conclusive statement merely on the effect of the installation of SDDs on the accident rate was not conceivable.

22. CTB/NWFB and NLB expressed grave concern on installation of SDU with the consideration that it might generate conflicts between bus captains and passengers. NLB also considered that FBs, different from PLBs, had already been installed with other devices monitoring bus captains' driving behaviour. NLB also expressed that it would be a nuisance and complicate procedure to handle a complaint of bus captain's driving performance when passengers took a photo on the SDU showing an improper vehicle speed. KMB/LW also expressed that the SDU would intensify the conflict between bus captains and passengers and that there was no correlation between SDU and accident in the case of PLBs with reference to the information orally provided by the TD in the Meeting. Therefore, all FB operators had reservations to install SDU on FBs.

23. After some discussions, the Meeting generally concluded that the SDU might not be conducive to safety if passengers were playing an active monitoring role. The FB operators should focus on the development and trials of the BMCS instead, which was a more effective total solution for monitoring the bus operation, managing and control their fleet as well as speeding and other driving mis-behavior of bus captains.

24. The TD, however, added that, as the Government, it was also necessary for the TD to gather views of the driver unions and the public/passengers as a whole. The TD, in conjunction with the bus companies, should examine how best we could deliver the above views to the public.

The TD and
all FB
operators

(iii) Installation of seat belts on all seats other than exposed seats

25. The Meeting noted that it was technically feasible to supply all new buses with seat belts for all passenger seats conforming to relevant international standards and all FB operators committed that all new FBs would be incorporated with seat belts on all passengers seats.

26. As for existing buses¹, the Meeting noted that retrofitting seat belts on all passenger seats of the upper deck of some existing double-deck bus models should be feasible. KMB/LW advised that they would retrofit seat belts on all passenger seats of the upper deck or deploy buses with seat belts on all passenger seats on routes which

Action

serve long haul passengers or are operated on expressways with limited boarding or alighting activities at the enroute stops.

[Post-meeting note : KMB/LW advised that there would be about 400 new buses with seat belts on all passengers seats by mid-2019. KMB/LW would deploy these buses to the required routes. Retrofitting seat belts to existing buses would depend on the actual situation/ requirement at that moment.]

27. In the light of KMB/LW's initiative, the Meeting had discussed and come to the views that having regard to the technical feasibility in retrofitting seat belts on existing buses; operation of FBs in Hong Kong which were mostly deployed on urban routes with standing passengers; and the costs and downtime incurred to retrofit seat belts on all existing buses, as well as overseas experiences, that there were insufficient justifications to make it a mandatory requirement for all buses to be fitted with seat belts on all passenger seats. Nevertheless, Members reckoned that as in the case of exposed seats and in bus compartment with no standees allowed, seat belts might give extra protection to seated passengers to prevent passengers from falling out from these seats.

28. In this regard, CTB/NWFB was requested to consider retrofitting seat belts on all passenger seats on the upper deck for the buses operating selected bus routes for long haul passengers or operating on expressways with limited boarding and alighting activities along the routes. CTB/NWFB indicated that it would be difficult for their companies to allocate their buses to solely operate specific routes as their buses would serve a number of routes in a day under their existing operations. In addition, CTB/NWFB observed that very few passengers would make use of seat belts, it would not be financially viable to retrofit existing buses with seat belts on all passenger seats. CTB/NWFB requested the Government to fund the retrofit of seat belts to existing buses if that was what the government wanted.

29. NLB said they had approximate 35 double deckers and would consider retrofitting seat belts, subject to the technical and operational feasibility and commercial viability.

30. The Meeting agreed that it was worth exploring in more details in conjunction with the major bus manufacturers to ascertain the technical feasibility of retrofitting seat belts on the upper deck of different bus models, the operational and capacity constraints, and the timetable for completing the retrofitting works on all suitable buses for

deployment on suitable routes, as well as the commercial viability

Action

31. In this connection, the TD requested all FB operators to estimate the number of long-haul bus routes operating via expressway with relatively fewer bus stops and the corresponding number of buses involved, and provide the information to the TD for reference the soonest possible.

All FB operators

(Post-meeting notes : CTB/NWFB and NLB provided the information on 26 June, while KMB provided the estimates on 5 July 2018.)

32. The TD would revise the summary table reflecting the discussions and provide to all FB operators for further comments.

[Post-meeting notes: The TD revised the summary table and sent to all FB operators twice for further comments on 22 June and 5 July 2018. The summary table with consolidation with FB operators' comments (**Annex C**) was emailed to all FB operators on 9 July 2018 for record.]

(C) ISO 39001 - Road Traffic Safety Management System

33. The Meeting noted that each bus operator had its own system in safety management. Upon the TD's enquiry to all FB operators on adaptation of any management system under international standards, CTB/NWFB replied that they did not obtain any management system accreditations under international standards. KMB/LW and NLB said that they obtained accreditations of ISO 9001, ISO 14001 and OHSAS 18001.

34. The Meeting noted that there was an international management standard for Road Traffic Safety, i.e. ISO 39001 - Road Traffic Safety Management System that was launched in 2014. While all FB operators advised that they had developed their own management systems which enabled them to manage FB operations in a safe manner, all FB operators were request to make comparison between their own management system and the ISO 39001 or other similar management systems in the market, and to report findings, including but not limited to, organization and details of the existing safety management systems in their respective companies with improvement measures, if any, by end of October 2018.

All FB operators

(D) Preparation of a report for the Working Group

35. The Convener thanked the members' valuable contributions

Action

to the discussions at working group meetings and technical meetings, and advised the members that the TD would start preparing the report with recommendations based on the information deliberated at the meetings. All FB operators were invited to note that the Working Group recommendations would be submitted to Legislative Council Panel on Transport and the information could be accessed by the members of public.

(E) Any other business

36. There being no other business, the meeting adjourned at 4.30 p.m.

Practice Note on Training Framework for Franchised Bus Captains

Introduction

This paper sets out the “Practice Note on Training Framework for Franchised Bus Captains” (the “Practice Note”) to be promulgated for reference and adoption by the franchised bus operators.

Objectives of the Practice Note

2. With a view to enhancing safety delivery in the franchised bus services, the Transport Department (“TD”) has, after reviewing the franchised bus operators’ training arrangements for bus captains, sought to lay down a set of industry-wide standard practices in respect of the franchised bus captains’ **training framework**, including the basic requirements on modules, duration and weighting, so as to provide a common basis for internal monitoring and audit within individual franchised bus companies.

3. The objective of the Practice Note is to align the training arrangements of different franchised bus operators and to lay down a common framework of the training system for their bus captains. Given that different bus companies have different bus networks operating in different operating environment, it is necessary for them to make specific training programmes in order to suit their respective operational needs on the basis of the common standard as set out in this Practice Note. The TD will review the Practice Note with the franchised bus operators on a regular basis, in order to strive for the best standard practices to cater for the ever-changing operating needs and public expectations on safe franchised bus services.

The Practice Note

(A) Structure of training system

4. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of Courses | Minimum Requirement | Target Trainees ⁽²⁾ | Timing |
|---|--|--|---|
| (a) Induction course | 1 day (Full-time) & 0.5 day (Part-time) | New recruits | Before providing passenger service |
| (i) Classroom training | | | |
| (ii) Behind-the-wheel road training | <u>Full-time bus captains</u> 20 hours ⁽¹⁾ <u>Part-time bus captains</u> 16 hours ⁽¹⁾ | | |
| (b) Refresher course | 0.5 day | In-service bus captains | Once in every three years |
| (c) New bus route training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (d) New bus type (model with new driving features) training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (e) Remedial training | 1 day | In-service bus captains with improper driving behavior or attitude | As and when required |

Notes :

(1) After the behind-the-wheel road training, the bus captains will be subject to internal driving assessment. The bus captains must pass the internal driving assessment before they are deployed on revenue trips.

(2) Applicable to full-time and part-time bus captains.

(B) Modules for Induction and Refresher Courses

5. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course (Classroom and Behind-the-wheel Road Training ⁽³⁾) | Weightings in refresher course (Classroom) |
|---|--|---|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

Notes :

- (3) While behind-the-wheel road training provided during induction course enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it should also cover the contents of the modules to be delivered in a practical way with on-the-ground experiences.

(C) Remedial Training

6. Remedial training should be provided to those bus captains in the following categories :-

- (a) with improper driving behaviour repeatedly detected from black box data or other sources like plain-cloth inspections;
- (b) having involved in serious traffic accidents;
- (c) having persistently committed the same traffic offence; or
- (d) having reached a certain driving offence points.

(D) Internal Monitoring and Audit Mechanism by Franchised Bus Operators

7. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :

- (a) To monitor the compliance of this Practice Note;
- (b) To develop key indicators on the effectiveness of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
- (c) In the light of the findings of (b), to review and determine appropriate actions or measures.

8. The management of franchised bus operators should submit regular periodic reports (e.g. at least half-yearly) to their respective Boards of Directors in respect of the findings on matters in para. 7 above.

Transport Department
June 2018

**Discussion on the Feasibility and Desirability of
Installing Seat Belts on All Passenger Seats and Other On-vehicle Safety Devices on Franchised Buses
(as at 21 June 2018)**

| Proposal | WG's Recommendations | Target Timeframe |
|---|---|--|
| <p>(1) Bus monitoring & control system (BMCS) [An integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology]</p> <ul style="list-style-type: none"> ● <u>Phase 1</u> BMCS with positioning function, operational information monitoring function and geo-fencing technology for fleet management ● <u>Phase 2</u> BMCS with full functions | <ul style="list-style-type: none"> ● KMB/LW were conducting trial with a bus manufacturer to test the speed limiting by GPS ● All FB operators would develop this technology for their bus fleet monitoring & speed control system ● Phase 1 trial will include 2 routes. | <ul style="list-style-type: none"> ● Phase 1 trial to be embarked by end 2018 ● Phase 2 trial to be embarked within 2019 |
| <p>(2) Electronic stability control ("ESC") and Roll stability control ("RSC")</p> | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● All FB operators agreed that all new buses will be incorporated with ESC <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● Subject to the development result of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation on all buses | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivery from Jan 2019 ● CTB/NWFB : with buses delivery from Jun 2019 ● NLB : new bus orders to be placed in future <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● To complete the retrofitting within <input checked="" type="checkbox"/> years |

¹ Existing Buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI

| Proposal | WG's Recommendations | Target Timeframe |
|--|--|--|
| (3) Capping the maximum speed at 70 km/hour on downhill by the speed limiter | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● FB operators agreed that all new buses will be incorporated with this device. <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● Subject to the development result of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation. | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivery from Jan 2019 ● CTB/NWFB : with buses delivery from Jun 2019 ● NLB : new bus orders to be placed in future <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> ● To complete the retrofitting within [x] years |
| (4) Collision prevention and lane keeping devices | <ul style="list-style-type: none"> ● CTB/NWFB will install this device in their training buses for training purpose and will conduct a trial on service trips in due course. ● KMB/LW will explore similar devices from different suppliers and embark on a trial. | <ul style="list-style-type: none"> ● To embark the trial by end 2018. |
| (5) Driver monitoring device | <ul style="list-style-type: none"> ● KMB/LW will embark a trial on this device. ● CTB/NWFB will explore similar devices from different suppliers and embark on a trial. | <ul style="list-style-type: none"> ● To embark the trial in late June 2018. ● CTB/NWFB to embark the trial by end 2018. |
| (6) Speed display unit ("SDU") in passenger | Subject to consultation, all FB operators are | <ul style="list-style-type: none"> ● To complete the installation within [x] years |

| Proposal | WG's Recommendations | Target Timeframe |
|--|---|--|
| compartment | required to install the SDU for all buses | |
| (7) Seat belts for all passenger seats | <p><u>New Buses</u> All FB operators agreed that all new buses will be incorporated with seat belts.</p> <p><u>Existing Buses</u>¹ KMB/LW will retrofit seat belts phase by phase for specific routes</p> <p>CTB/NWFB's views ?</p> <p>NLB's views ?</p> | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivery from Jul 2018 ● CTB/NWFB : with buses delivery from Jun 2019 ● NLB : new bus orders to be placed in future <p><u>Existing Buses</u>¹</p> |

Recommendations of
Installing Seat Belts on All Passenger Seats and Other On-vehicle Safety Devices and Technologies on Franchised Buses
(as at 9 July 2018)

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|--|---|
| <p>(1) Bus monitoring & control system (BMCS) An integral system with positioning function, operational information monitoring function, variable speed limiting function with geo-fencing technology</p> <ul style="list-style-type: none"> ● <u>Phase 1</u> BMCS with positioning function, operational information (such as vehicle speed, brake status, deceleration, etc.) monitoring function and geo-fencing technology for fleet management to achieve detection of overspeeding and provide real time alert to the bus captains ● <u>Phase 2</u> BMCS to utilize the functions developed in Phase 1 together with the 2-speed active speed limiting function being developed by bus manufacturers to achieve automatic speed limiting functions (50km/hr or 70km/hr depending on the speed limit of road section) | <ul style="list-style-type: none"> ● KMB/LW were conducting trial with a bus manufacturer to test the speed limiting by GPS ● All FB operators would develop and trial the application of GPS technology for their bus fleet monitoring & speed control system ● Phase 1 trial on the application of GPS will include at least 2 routes for each FB operator. | <ul style="list-style-type: none"> ● Phase 1 trial to be embarked by end 2018 ● Phase 2 trial to be embarked within 2019, subject to the satisfactory trial result of Phase 1 and the satisfactory development of device with variable speed limiting function to achieve 2-speed limiting functions. |
| <p>(2) Electronic stability control ("ESC") and Roll stability control ("RSC")</p> | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● All FB operators agreed that all new double-deck buses will be incorporated with ESC | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivered from Jan 2019 ● CTB/NWFB : with buses delivered from Jun 2019 |

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|--|--|--|
| | <p><u>Existing Buses</u>¹</p> <ul style="list-style-type: none"> ● Subject to the satisfactory development result and the commercial viability of the device for the existing double-deck bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation on all double-deck buses | <ul style="list-style-type: none"> ● NLB : new bus orders to be placed in future |
| (3) Capping the maximum speed at 70 km/hour on downhill by the speed limiter | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● FB operators agreed that all new buses will be incorporated with this device. <p><u>Existing Buses</u>¹</p> <ul style="list-style-type: none"> ● Subject to the satisfactory development result and the commercial viability of the device for the existing bus models and the retrofitting proposal from bus manufacturers, all FB operators will retrofit such installation. | <p><u>New Buses</u></p> <ul style="list-style-type: none"> ● KMB/LW : with buses delivered from Jan 2019 ● CTB/NWFB : with buses delivery from Jun 2019 ● NLB : new bus orders to be placed in future |
| (4) Collision alert/ lane keeping devices | <ul style="list-style-type: none"> ● CTB/NWFB will install this device in 5 buses for training and assessment purposes. These buses will also be deployed on service trips. | <ul style="list-style-type: none"> ● To embark the trial by end 2018. |

¹ Existing Buses refer to Euro V buses of ADL Enviro 500 manufactured from 2013, Volvo B9TL and MAN A95 buses and Euro VI buses

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|--|---|
| | <ul style="list-style-type: none"> KMB/LW and NLB will explore similar devices from different suppliers and embark on a trial. | |
| (5) Driver monitoring device | <ul style="list-style-type: none"> KMB/LW will embark a trial on this device on 4 buses. CTB/NWFB and NLB will explore similar devices from different suppliers and embark on a trial. | <ul style="list-style-type: none"> To embark the trial in Q3 2018. CTB/NWFB to embark the trial by end 2018. |
| (6) Speed display unit ("SDU") in passenger compartment | Though all FB operators did not agree to install SDU, TD requested all FB operators to consider installing the SDU for all buses and to consult with the unions. | |
| (7) Seat belts for all passenger seats | <p><u>New Buses</u></p> <ul style="list-style-type: none"> All FB operators agreed that all new buses will be incorporated with seat belts. <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> KMB/LW will retrofit seat belts on upper deck passenger seats only or deploy buses with seat belts on all passenger seats on routes which serve long haul passengers or are operated on expressways with limited boarding or | <p><u>New Buses</u></p> <ul style="list-style-type: none"> KMB/LW : with buses delivery from Jul 2018 CTB/NWFB : with buses delivery from Jun 2019 NLB : new bus orders to be placed in future <p><u>Existing Buses¹</u></p> <ul style="list-style-type: none"> All FB operators will provide the estimated no. of buses involved, cost implication and timeframe for retrofit |

| Proposed on-vehicle safety devices/technologies | WG's Recommendations | Target Timeframe |
|---|---|------------------|
| | <p>alighting activities at the enroute stops.</p> <ul style="list-style-type: none"> ● Though CTB/NWFB did not agree to retrofitting as it is expected that few passengers will make use of the seat belts and it will not be financially viable to retrofit existing buses unless it is funded by the Government, TD is of the view to retrofit the seat belts for bus routes serving long haul passengers, or operating on expressways with limited boarding or alighting activities at the enroute stops where passengers tend to use them. ● All bus operators will provide the estimated no. of buses involved in bus routes serving long haul passengers, or operating on expressways with limited boarding or alighting activities at the enroute stops, cost implication and timeframe for the retrofitting seat belts on all upper deck seats. | |



運輸署
Transport Department

13.5

本函檔號 Our Ref.: TD BR 76/190-2C

URGENT BY FAX

來函檔號 Your Ref.:

電話號碼 Tel No.: 2829 5210

傳真號碼 Tel No.: 2824 0433

6 August 2018

Distribution

Dear Sir,

Working Group on Enhancement of Safety of Franchised Buses

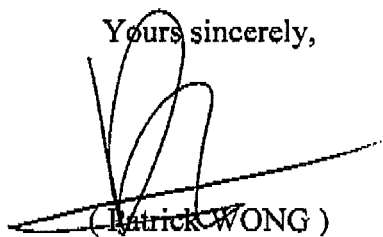
Thank you for your valuable contributions to the discussions on the measures to further enhance franchised bus safety at the meetings of the Working Group on Enhancement of Safety of Franchised Buses ("Working Group") in the past months.

With reference to our discussions, we have drawn up a practice note together (as attached at the Annex) with the main objective to lay down a set of industry-wide standard practices on training for franchised bus captains including the basic requirements on the structure, modules and their relative weightings, so as to provide a common basis for the training framework of franchised bus captains. Noting that different bus companies have different bus networks operating in different operating environment, it is the consensus of the Working Group that flexibility should be allowed for individual franchised bus operators to provide tailor-made training programmes to cater for their respective operational needs on the basis of the common standard as set out in the aforesaid practice note.

We understand you are making any necessary adjustment to your training arrangement following the framework as set out in the practice note, with a view to starting implementing the adjusted training arrangements by phases starting from October 2018. As agreed, you will also set up an internal monitoring and audit mechanism to monitor the compliance of the practice note, to develop key indicators on the effectiveness of training for bus captains, and to review and determine appropriate actions or measures, with regular reports be submitted to your respective

Boards of Directors in the respect of the findings for monitoring. We would be grateful if you would also send copies of these reports to the Transport Department ("TD"), such that we may also monitor the effectiveness of your internal monitoring and audit mechanism as against the key indicators proposed, and take follow-up actions as necessary. The TD also plans to require all franchised bus operators to report their respective training arrangements in the context of the annual Forward Planning Programme as required in section 12A(1) of the Public Bus Services Ordinance (Cap. 230), starting from 2019-2020, and we can work out the details in due course. We will also further discuss related follow ups on this subject in our coming Working Group meeting planned to be held in September or October 2018 in more details.

Yours sincerely,



(Patrick WONG)
for Commissioner for Transport

Encl.

Distribution

KMB/ LW (Fax No.: 2745 0300)

| | |
|--------------------|--|
| Mr. Godwin SO | General Manager, Corporate Planning & Business Development |
| Mr. LEUNG Kin Wang | Operations Director |
| Mr. James WONG | Head of Training and Quality Assurance Department |

CTB/ NWFB (Fax No.: 2104 0543)

| | |
|-------------------|---------------------------|
| Mr. William CHUNG | Head of Operations |
| Mr. Paul LI | Head of Engineering |
| Mr. Vincent FUNG | Senior Operations Manager |

NLB (Fax No.: 2984 8812)

| | |
|-------------------|--------------------------------------|
| Mr. Benny CHAN | Deputy General Manager |
| Mr. Patrick YEUNG | Head of Service and Training |
| Mr. Billy WONG | Assistant Manager, Operation Support |

Annex**Practice Note on Training Framework for Franchised Bus Captains****Introduction**

This Practice Note on Training Framework for Franchised Bus Captains (the “Practice Note”) lays down a set of industry-wide standard practices in respect of the franchised bus captains’ training framework for adoption by the franchised bus operators from October 2018.

Objectives of the Practice Note

2. With a view to enhancing safety delivery in the franchised bus services, the Transport Department (“TD”) has, after reviewing the franchised bus operators’ training arrangements for bus captains, sought to lay down a set of industry-wide standard practices in respect of the franchised bus captains’ training framework, including the basic requirements on modules, duration and weighting, so as to provide a common basis for internal monitoring and audit within individual franchised bus companies.

3. The objective of the Practice Note is to align the training arrangements of different franchised bus operators and to lay down a common framework of the training system for their bus captains. Given that different bus companies have different bus networks operating in different operating environment, it is necessary for them to make specific training programmes in order to suit their respective operational needs on the basis of the common standard as set out in this Practice Note. The TD will review the Practice Note with the franchised bus operators on a regular basis, in order to strive for the best standard practices to cater for the ever-changing operating needs and public expectations on safe franchised bus services.

The Practice Note

(A) Structure of training system

4. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of Courses | Minimum Requirement | Target Trainees ⁽²⁾ | Timing |
|---|--|--|---|
| (a) Induction course | 1 day (Full-time) & 0.5 day (Part-time) | New recruits | Before providing passenger service |
| (i) Classroom training | | | |
| (ii) Behind-the-wheel road training | <u>Full-time bus captains</u> 20 hours ⁽¹⁾ <u>Part-time bus captains</u> 16 hours ⁽¹⁾ | | |
| (b) Refresher course | 0.5 day | In-service bus captains | Once in every three years |
| (c) New bus route training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (d) New bus type (model with new driving features) training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (e) Remedial training | 1 day | In-service bus captains with improper driving behavior or attitude | As and when required |

Notes :

(1) After the behind-the-wheel road training, the bus captains will be subject to internal driving assessment. The bus captains must pass the internal driving assessment before they are deployed on revenue trips.

(2) Applicable to full-time and part-time bus captains.

(B) Modules for Induction and Refresher Courses

5. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course (Classroom and Behind-the-wheel Road Training ⁽³⁾) | Weightings in refresher course (Classroom) |
|---|---|--|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

Notes :

- (3) While behind-the-wheel road training provided during induction course enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it should also cover the contents of the modules to be delivered in a practical way with on-the-ground experiences.

(C) Remedial Training

6. Remedial training should be provided to those bus captains in the following categories :-

- (a) with improper driving behaviour repeatedly detected from black box data or other sources like plain-cloth inspections;
- (b) having involved in serious traffic accidents;
- (c) having persistently committed the same traffic offence; or
- (d) having reached a certain driving offence points.

(D) Internal Monitoring and Audit Mechanism by Franchised Bus Operators

7. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :

- (a) To monitor the compliance of this Practice Note;
- (b) To develop key indicators on the effectiveness of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
- (c) In the light of the findings of (b), to review and determine appropriate actions or measures.

8. The management of franchised bus operators should submit regular periodic reports (at least half-yearly) to their respective Boards of Directors in respect of the findings on matters in para. 7 above.

Transport Department
August 2018

Our Ref: CPBD/012L/TD/KMB/18

18 July 2018

Commissioner for Transport
Transport Department
41st Floor
Immigration Tower
7 Gloucester Road
Wan Chai
Hong Kong

Attn: Ms Macella LEE

[By Email and By Fax: 2824 0433]

Dear Commissioner,

Working Group of Enhancement of Franchised Bus Safety

The Working Group of Enhancement of Franchised Bus Safety (the “Working Group”) has been an effective platform for discussing bus safety related issues among all franchised bus operators and your Department since its introduction. The third meeting of the Working Group was held on 21 June 2018.

In the meeting, it was discussed that a set of guidelines on training arrangements for the bus captains were formulated in the previous group meetings. In the post-meeting note of the Notes of Meeting, it was mentioned that the set of guidelines was turned into Practice Note on Training Framework for Franchised Bus Captains (the “Practice Note”).

In relation to the above, it would be grateful if your Department could enlighten us the following:

1. The rationale for changing a set of guidelines to a practice note;
2. The authoritative status of a practice note;
3. Any other existing directive from your Department to franchised bus operators that is regulated / monitored in the form of a practice note; and
4. Difference between non-compliance with a set of guidelines and non-compliance with a practice note.



Kindly contact the undersigned if you would like to need any clarification to our enquiries. We look forward to your reply to let us have a clear understanding of the difference between guidelines and practice notes.

Thank you for your attention.

Yours faithfully,
for and on behalf of
THE KOWLOON MOTOR BUS CO. (1933) LTD.

Godwin So
General Manager,
Corporate Planning & Business Development

c.c. Mr. Patrick Wong – Transport Department (By email)
c.c. Ms Amy LEE – Transport Department (By email)



本函檔號 Our Ref.: TD BR 76/190-2C
 來函檔號 Your Ref.: CPBD/012L/TD/KMB/18
 電話號碼 Tel No.: 2829 5210
 傳真號碼 Tel No.: 2511 4158

URGENT BY FAX
 (Fax No. 2745 0300)

6 August 2018

Mr. Godwin SO
 General Manager
 Corporate Planning & Business Development
 The Kowloon Motor Bus Co. (1933) Ltd.
 9 Po Lun Street
 Lai Chi Kok
 Kowloon

Dear Godwin,

Working Group on the Enhancement of Safety of Franchised Buses

I refer to your letter under reference dated 18 July 2018 regarding the Practice Note on Training Framework for Franchised Bus Captains ("the Practice Note"), and would like to provide our reply to your enquiries below.

The Working Group on the Enhancement of Safety of Franchised Buses (the "Working Group") has reviewed the existing training arrangements provided by the franchised bus operators to bus captains. As a follow up to one of the recommendations of the Working Group, we have issued the Practice Note as attached in our letter ref. TD BR 76/190-2C dated 6 August 2018.

As you have pointed out rightly, the Working Group had initially considered the option of devising a set of guidelines on the standard requirements for provision of training to bus captains for the compliance of all franchised bus operators. However, after the very useful and fruitful detailed discussions, the Working Group has acknowledged that different bus operators have different bus networks operating in different operating environment, it is therefore necessary for them to tailor-make specific training programmes in order to suit their

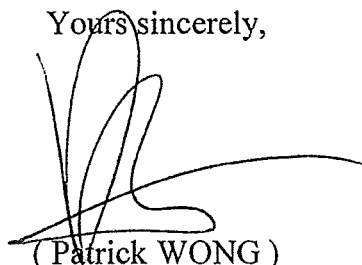
respective operational needs with reference to the Practice Note. It is quite impracticable to have a set of standardized guidelines on training arrangements that are applicable to all bus operators.

Despite that above, the Working Group has recognised that there are areas of improvement in the training arrangements across the franchised bus industry. Notably, all franchised bus operators have agreed that all full-time and part-time bus captains should be provided with refresher course at least once every three years to update them with the latest service standards and laws and regulations, trends of complaints and etc. Besides, all bus operators considered that behind-the-wheel road training should be given to bus drivers before they are deployed to drive on all individual bus routes. Also, all operators also agreed that increasing weighting should be given to customer service and emotional management in the modules of the induction and refresher course content. In the light of these discussions, we have drawn up a practice note together with the main objective to lay down a set of industry-wide standard practices on training for franchised bus captains including the basic requirements on the structure, modules and their relative weightings, so as to provide a common basis for the training framework of franchised bus captains. Flexibility is allowed for individual franchised bus operators to provide tailor-made training programmes to cater for their respective operational needs on the basis of the common standard as set out in the aforesaid practice note. Because of this consideration, individual bus companies will set up its own internal monitoring and audit mechanism to monitor the compliance of the practice note, to develop key indicators on the effectiveness of training for bus captains, and to review and determine appropriate actions or measures, with regular reports be submitted to their respective Boards of Directors in the respect of the findings for monitoring.

Regarding the role of the Transport Department ("TD"), as mentioned in our above letter, bus companies have been requested to send the TD copies of their reports submitted to their Board of Directors such that the TD may also monitor the effectiveness of your internal monitoring and audit mechanism as against the key indicators proposed, and take follow-up actions as necessary. It is also the TD's plan to require all franchised bus operators to report and feature their respective training arrangements in the context of the annual Forward Planning Programme as required in section 12A(1) of the Public Bus Services Ordinance (Cap. 230), starting from 2019-2020. We will further work out the details and other related follow ups on the subject in our coming Working Group meeting planned to be held in September or October 2018.

Let me take this opportunity to thank KMB again for the valuable contribution and positive response in the Working Group. I hope we can continue to work together, in conjunction with other franchised bus operators, for enhancing the quality and safety of franchised bus service in Hong Kong. Should you have further enquiries on the above, please contact the undersigned.

Yours sincerely,

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke extending to the right.

(Patrick WONG)
for Commissioner for Transport

Annex**Practice Note on Training Framework for Franchised Bus Captains****Introduction**

This Practice Note on Training Framework for Franchised Bus Captains (the “Practice Note”) lays down a set of industry-wide standard practices in respect of the franchised bus captains’ training framework for adoption by the franchised bus operators from October 2018.

Objectives of the Practice Note

2. With a view to enhancing safety delivery in the franchised bus services, the Transport Department (“TD”) has, after reviewing the franchised bus operators’ training arrangements for bus captains, sought to lay down a set of industry-wide standard practices in respect of the franchised bus captains’ training framework, including the basic requirements on modules, duration and weighting, so as to provide a common basis for internal monitoring and audit within individual franchised bus companies.
3. The objective of the Practice Note is to align the training arrangements of different franchised bus operators and to lay down a common framework of the training system for their bus captains. Given that different bus companies have different bus networks operating in different operating environment, it is necessary for them to make specific training programmes in order to suit their respective operational needs on the basis of the common standard as set out in this Practice Note. The TD will review the Practice Note with the franchised bus operators on a regular basis, in order to strive for the best standard practices to cater for the ever-changing operating needs and public expectations on safe franchised bus services.

The Practice Note

(A) Structure of training system

4. The structure of the training system for franchised bus captains should comprise at least the following :-

| Types of Courses | Minimum Requirement | Target Trainees ⁽²⁾ | Timing |
|---|--|--|---|
| (a) Induction course | 1 day (Full-time) & 0.5 day (Part-time) | New recruits | Before providing passenger service |
| (i) Classroom training | | | |
| (ii) Behind-the-wheel road training | <u>Full-time bus captains</u> 20 hours ⁽¹⁾ <u>Part-time bus captains</u> 16 hours ⁽¹⁾ | | |
| (b) Refresher course | 0.5 day | In-service bus captains | Once in every three years |
| (c) New bus route training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (d) New bus type (model with new driving features) training | Behind-the-wheel road training | In-service bus captains | Before the bus captain is assigned to provide passenger service |
| (e) Remedial training | 1 day | In-service bus captains with improper driving behavior or attitude | As and when required |

Notes :

(1) After the behind-the-wheel road training, the bus captains will be subject to internal driving assessment. The bus captains must pass the internal driving assessment before they are deployed on revenue trips.

(2) Applicable to full-time and part-time bus captains.

(B) Modules for Induction and Refresher Courses

5. The Modules and the weightings recommended for induction course and refresher course are set as follows :-

| Modules | Weightings in induction course (Classroom and Behind-the-wheel Road Training ⁽³⁾) | Weightings in refresher course (Classroom) |
|---|---|--|
| (a) Safe driving and road safety | 70%-85% | 60-75% |
| (b) Cognition of on-vehicle device/facilities | | |
| (c) Handling of incident/emergency | 5%-10% | 20-30% |
| (d) Customer service & emotional management | 10%-20% | |
| (e) Knowledge of company rules, traffic regulations, occupational health and safety | | 5%-10% |

Notes :

- (3) While behind-the-wheel road training provided during induction course enables the bus captains to be familiarized with bus types/models of the company's bus fleet and the routings of bus services, it should also cover the contents of the modules to be delivered in a practical way with on-the-ground experiences.

(C) Remedial Training

6. Remedial training should be provided to those bus captains in the following categories :-

- (a) with improper driving behaviour repeatedly detected from black box data or other sources like plain-cloth inspections;
- (b) having involved in serious traffic accidents;
- (c) having persistently committed the same traffic offence; or
- (d) having reached a certain driving offence points.

(D) Internal Monitoring and Audit Mechanism by Franchised Bus Operators

7. To ensure that adequate and appropriate trainings are provided to the bus captains, the franchised bus operators should set up an internal monitoring and audit mechanism in order to achieve the following objectives :

- (a) To monitor the compliance of this Practice Note;
- (b) To develop key indicators on the effectiveness of the training system provided to bus captains (e.g. accident involvement rates, complaints on driving skills and performance and etc.); and
- (c) In the light of the findings of (b), to review and determine appropriate actions or measures.

8. The management of franchised bus operators should submit regular periodic reports (at least half-yearly) to their respective Boards of Directors in respect of the findings on matters in para. 7 above.

Transport Department
August 2018

九龍巴士（一九三三）有限公司職位申請書
Application Form for Employment with
The Kowloon Motor Bus Co. (1933) Ltd.

| |
|--------------------------------------|
| 只供內部填寫 For office Use Only |
| 申請人編號 App. No. |
| 參考編號 Ref. No. |

| | |
|------------------------------|-----------|
| 申請職位 Position Applied for | 車長 |
|------------------------------|-----------|

| I. 個人資料 Personal Particulars | | | |
|--|--|--|------------------------|
| 英文姓名 Name in English | | 中文姓名 Name in Chinese | |
| 稱號* <input type="checkbox"/> 先生 <input type="checkbox"/> 太太 <input type="checkbox"/> 女士 <input type="checkbox"/> 小姐 Title* Mr Mrs Ms Miss | | | |
| 香港身份證號碼 HKID No. | | 出生日期 (日/月/年) Date of Birth (dd/mm/yy) / / | |
| 你是否香港特別行政區永久性居民？* Are you a permanent resident of the HKSAR? * <input type="checkbox"/> 是 Yes <input type="checkbox"/> 否 No (如否，你是否可以在香港合法受僱？If no, are you legally employable in Hong Kong? * <input type="checkbox"/> 是 Yes <input type="checkbox"/> 否 No | | | |
| 此欄只供非香港特別行政區永久性居民填寫 For applicants without Hong Kong Permanent Identity Card 如你是可以在香港合法受僱，請填寫有效旅遊證件資料。 If you are legally employable in Hong Kong, please state the travel document details. | | | |
| 旅遊證件號碼 Travel Doc. No. | | 簽發機關 Issuing Authority | 屆滿日期 Date of Expiry |
| (中) | | | |
| 住址 Residential Address (英) | | | |
| 通訊地址 (如與上址不同) Contact Address (If different from the above address) | | | |
| 住所電話 Residential Phone No. | | 聯絡電話 Contact Phone No. | |
| 電郵 Personal E-mail | | | |

| II. 就業詳情 Employment History | | | | | |
|---|------|-----------------------------|-------------------------|---------------------|----------------------------|
| 請先填寫最近的就業資料。 Please complete the information in reverse chronological order. | | | | | |
| 日期 (月/年) Date (mm/yyyy) | | 全職/兼職 Full/ Part Time | 公司名稱 Name of Company | 職位 Position Held | 離職原因 Reason for Leaving |
| 由 From | 至 To | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

* 請在適當位置填上“✓” Please put “✓” as appropriate

III. 學歷 Education

請先列出最近取得之學歷，並提供相關證書副本作參考。

Please provide information in reverse chronological order and submit copies of the certificates for reference.

| 日期 (月/年) Date (mm/yyyy) | | 全日制/兼讀 Full/Part Time | 學校 / 學院名稱 Name of School / Institute | 所獲資格 # Qualification Attained # | 頒發日期 (月/年) Date of Award (mm/yyyy) |
|----------------------------|------|--------------------------|---|------------------------------------|--|
| 由 From | 至 To | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Please indicate level of qualification attained, i.e. PhD, Master's, Bachelor's, Certificate, Diploma, Post Secondary, etc.
請列明所獲取之資格，即博士、碩士、學士、證書、文憑、專上教育等。

IV. 專業資格 Professional Qualifications

請先列出最近取得之專業資格，並提供相關證書副本作參考。

Please provide information in reverse chronological order and submit copies of the certificates for reference.

| 持有的專業資格 / 會員類別 Professional Qualifications / Membership | 頒發機構全名 Full Name of Issuing Authority | 所達程度 Level Attained | 獲取資格的日期 Date Obtained |
|---|--|------------------------|--------------------------|
| | | | |
| | | | |
| | | | |

V. 語言及技能 Languages and Skills

語言 Languages:

書寫 Written

會話 Spoken

電腦知識 Computer Knowledge:

請詳列 Please specify

駕駛 Driving:

駕駛執照類別 Class

有效期至 Valid to

其他 Others:

請詳列 Please specify

* 請在適當位置填上“✓” Please put “✓” as appropriate

VI. 其他資料 Other Information

你是否現在或曾經受僱於載通集團？* Have you ever been employed by the TIH Group?*

☐ 是 ☐ 否 如是，請列明所屬公司名稱、部門、職位及受僱日期。

Yes No If yes, please specify the name of the company, the department, the position and the period of employment.

你是否現在或曾經受僱於其他巴士公司？* Have you ever been employed by other bus company?*

☐ 是 ☐ 否 如是，請列明所屬公司名稱、部門、職位及受僱日期。

Yes No If yes, please specify the name of the company, the department, the position and the period of employment.

| 公司名稱 Name of the company | 部門 Department | 職位 Position | 受僱日期 Period of Employment |
|-----------------------------|------------------|----------------|------------------------------|
| _____ | _____ | _____ | _____ |

VII. 所期薪金及可到職日期 Expected Salary and Date Available for Employment

所期薪金 Expected Salary _____ 可到職日期 Date Available _____

VIII. 聲明 Declaration

- 本人聲明上述資料及遞交之有關文件均屬正確無訛及詳盡。本人明白如有任何虛報、誤導、隱瞞或省略，本人將不被錄用，貴公司亦有權撤回向本人發出的口頭或書面僱聘承諾而毋須負責，而縱獲錄用，亦將構成本人被即時解僱之理由。貴公司可保留就情況需要採取其認為適當行動的權利。
I declare that the information given above and the documents provided are correct, true and complete. I understand that any falsification, misrepresentation, withholding or omission of material fact / documents shall render myself liable to rejection of my application, revocation of any verbal or written offer of employment from the Company to me without any liability, or summary dismissal if employed. The Company may also reserve the right to take such action as it thinks appropriate under the circumstances.
- 本人同意貴公司可就進行與招聘工作及僱用有關的事宜，及為核實上述資料而進行必要的查詢。本人授權貴公司、所有載通集團的其他公司及其他組織或機構可就這些查詢，透露任何有關的紀錄及資料。
I consent to the Company making any necessary enquiries for purposes relating to recruitment by and employment with the Company and for the verification of the information given above. I authorize the company, companies within TIH group and other agencies or contractors authorized to release any record or information as may be required for these enquiries.
- 本人明白並同意倘若本人受聘於貴公司，上述所有資料會成為貴公司的人力資源紀錄，以備作人力資源管理有關事宜之用。
I understand and accept that if I am employed by the company, all information in this form will be added to the Company's personnel records and will be used from time to time by the Company in dealing with employment related matters.

申請人簽署 Applicant's Signature _____ 日期 Date _____

IX. 申請人須知 Notes for Applicants

- 申請人必須填報申請書內要求提供的所有個人資料。本公司可能要求申請人就特定項目提供詳細資料，以支持申請個別職位。申請人如未能提供此等資料，你的申請處理及結果可能會受影響。
Provision of all the personal data requested in this form is obligatory. You should particularly note that the company may require you to provide specific details to support your application for individual vacancies. Failure to provide any of these data may affect the processing and outcome of your application.
- 申請人所提供的資料，將用於招聘工作以及其他與僱用有關的事宜上。如有需要，有關資料可能會送交獲授權處理有關資料的載通集團的其他公司及其他組織或機構，用以進行與本公司招聘工作及僱用有關的事宜。為核實申請人所提供資料的準確性，收集的資料亦可能會披露予有關人士或機構。在一般情況下，未獲取錄申請人的資料將於其落選日期後 12 個月全部銷毀。
Information provided will be used for recruitment and other employment-related purposes. It may be disclosed to the other companies within TIH group and other agencies or contractors responsible and authorized to process the information for purposes relating to recruitment and employment. The information collected may also be disclosed to such person or organization for the purpose of verifying the accuracy of the information provided by the applicant. Information on unsuccessful applicants will normally be destroyed 12 months after the recruitment process.
- 提交申請書後，本申請書內所提供的資料（包括香港特別行政區永久性居民的身分）如有任何更改時，申請人必須通知本公司。
You are required to notify the Company if there are any subsequent changes to the information provided, including the permanent resident status of the Hong Kong Special Administrative Region, after submission of the application.
- 如欲查閱或更改所提供個人資料，請以書面向本公司「人力資源部主管」提出。（地址：九龍荔枝角寶輪街九號）
Applicant has the right to request access to and correction of personal data collected from him / her in writing to the "Head of Human Resources Department" at 9 Po Lun Street, Lai Chi Kok, Kowloon.

* 請在適當位置填上“✓” Please put “✓” as appropriate

九龍巴士（一九三三）有限公司職位申請書（附頁）
Application Form for Employment with
The Kowloon Motor Bus Co. (1933) Ltd. (Supplement)

英文姓名

中文姓名

Name in English : _____

Name in Chinese : _____

申請職位

Position Applied for : _____

請提供以下補充資料：

Please provide the following supplementary information :

- ☐ 曾受到專業機構或監管機構的警告、遣責、紀律聆訊或其他形式的制裁
Warnings, reprimands, disciplinary hearings or other forms of sanctions from a professional body or regulatory body
- ☐ 刑事罪行紀錄
Criminal records

請詳述以上適用項目：

Details of the above : _____

收集個人資料聲明：

Declaration on collection of personal data :

1. 申請人必須填報申請書內要求提供的所有個人資料。本公司可能要求申請人就特定項目提供詳細資料，以支持申請個別職位。申請人如未能提供此等資料，申請處理及結果可能會受影響。

Provision of all the personal data requested in this form is obligatory. You should particularly note that the Company may require you to provide specific details to support your application for individual vacancies. Failure to provide any of these data may affect the processing and outcome of the application.

2. 申請人所提供的資料，將用於招聘工作以及其他與僱用有關的事宜上。如有需要，有關資料可能會送交獲授權處理有關資料的載通集團的其他公司及其他組織或機構，用以進行與本公司招聘工作及僱用有關的事宜。為核實申請人所提供資料的準確性，收集的資料亦可能會披露予有關人士或機構。在一般情況下，未獲取錄申請人的資料將於其落選口期後 12 個月全部銷毀。

Information provided will be used for recruitment and other employment-related purposes. It may be disclosed to the other companies within TIH group and other agencies or contractors responsible and authorized to process the information for purposes relating to recruitment and employment. The information collected may also be disclosed to such person or organization for the purpose of verifying the accuracy of the information provided by the applicant. Information on unsuccessful applicants will normally be destroyed 12 months after the recruitment process.

3. 本申請書附頁內所提供的資料如有任何更改，申請人必須通知本公司。

You are required to notify the Company if there are any subsequent changes to the information provided.

4. 如欲查閱或更改所提供之個人資料，請以書面向本公司「人力資源部主管」提出。(地址：九龍荔枝角寶輪街九號 16 樓)

Applicant has the right to request access to and correction of personal data collected from him / her in writing to the "Head of Human Resources Department" at 16/F, 9 Po Lun Street, Lai Chi Kok, Kowloon.

申請人簽署

Applicant's Signature : _____

日期

Date : _____

5000

致運輸署牌照部：

本人 (中文) (英文)。

香港身份証號碼 ()。現投考九龍巴士(一九三三)

有限公司之 車 長 職位。現授權該公司向運輸署牌照部查詢有

關本人之駕駛紀錄。

本人簽署

日期： 08.11.2017

To the Licensing Department of the Transport Department:

I, [redacted] (Chinese) [redacted] (English), Hong Kong Identity Card Number [redacted] ([redacted]), am currently applying for the position of bus captain of The Kowloon Motor Bus Co. (1933) Ltd. I hereby authorize the above company to inquire my driving record from the Licensing Department of the Transport Department.

My signature [redacted]

Date: 08.11.2017

Form No. P-45(08/08)

Name: [REDACTED]
 DOB: [REDACTED] Sex: Male
 X-Ray#: [REDACTED] Date: 2017/11/23
 Ref Dr: Dr. Tong Ho
 HKID: [REDACTED] CH14: 3Y4F201

CONFIDENTIAL



THE KOWLOON MOTOR BUS CO. (1933) LTD.

Medical Assessment Form

This is to certify that
 identity card number: employee number:

is medically fit for the post of ☒ Bus Captain

☐ Apprentice

☐ Others

Reason - (if unfit):

Remarks:

☐ Spectacles required

☐ Hearing aids required

*Delete whichever is inappropriate

KMB Medical Centre

KMB Lai Chi Kok Bus Depot

6/F, 100 Hing Wah Street West, Kowloon

Tel: 2959 2511 Fax: 2959 2577

Doctor's Signature & Chop: _____

Date: 25/11

HR/F-MC002 (03/10)

PERSONAL DATA "個人資料"

14.5

Serial No. 13110/2017
Tel. No. 2860 6332
Fax No. 2200 4451



Traffic Conviction Records Office
Central Traffic Prosecutions Division
Traffic Branch Headquarters
Hong Kong Police Force
11/F, Arsenal House, Police Headquarters
No.1 Arsenal Street, Wan Chai, Hong Kong
香港灣仔軍器廠街一號
警察總部警政大樓11樓
香港警務處交通總部
中央交通違例檢控組
交通違例檔案紀錄室

NAME :
姓名 :
DRIVING LICENCE NO. :
駕駛執照號碼 :
RECORD AS AT : 20/11/2017
紀錄截至 :

Dear Sir / Madam,
先生/女士:

Certificate of Previous Conviction Issued under
Section 75(5) of the Road Traffic Ordinance (Cap 374) of Laws of Hong Kong
根據《道路交通條例》(第374章)第75(5)條
發出的過往定罪事項證明書

In response to your application of the above made on 20/11/2017, the relevant records as at 20/11/2017 are as follows :
有關閣下於 二〇一七年十一月二十日 提交上述證明書的申請，現提供截至 二〇一七年十一月二十日 的有關紀錄如下：

(a) Previous conviction record on the basis of Road Traffic Ordinance (Chapter 374) in the past ten years
(甲) 過去十年內根據《道路交通條例》(第374章)的定罪紀錄

| OFFENCE 罪名 | CASE NO. & COURT 案件編號及主審法庭 | DATE OF CONVICTION 判罪日期 | RESULT 結果 |
|---------------|-------------------------------|-------------------------------|--------------|
|---------------|-------------------------------|-------------------------------|--------------|

(NO RECORD)
(無紀錄)

(b) Payment record under the Fixed Penalty (Criminal Proceedings) Ordinance (Chapter 240) in the past five years
(乙) 過去五年內根據《定額罰款(刑事訴訟)條例》(第240章)的繳款紀錄

| OFFENCE 罪名 | TICKET NO. 告票號碼 | OFFENCE DATE 違例日期 | PAYMENT DATE 繳款日期 | FINE 罰款 |
|---|--------------------|----------------------|----------------------|--------------------------|
| FAILING TO COMPLY WITH TRAFFIC SIGNALS 沒有遵從交通燈的指示 | TE147763(8) | 13/12/2014 | 20/01/2015 | FINE \$600.00 罰款 600元 |
| FAILING TO DISPLAY VALID LICENCE 沒有展示有效的車輛牌照 | NH133494(2) | 19/12/2016 | 19/12/2016 | FINE \$320.00 罰款 320元 |



Original from
Lengoi King

Total: 2 Record(s)
共 2 項紀錄

5004

PERSONAL DATA "個人資料"

14.5

NAME

姓名

DRIVING LICENCE NO.

駕駛執照號碼

SERIAL NO.

編號

RECORD AS AT

紀錄截至

: 13110/2011

: 20/11/2017



(c) Record of driving-offence points under Section 3(2) of the Road Traffic (Driving-Offence Points) Ordinance (Chapter 375) in the past five years

(丙) 過去五年內根據《道路交通（違例駕駛記分）條例》（第375章）第3(2)條的違例駕駛記分紀錄

| OFFENCE 罪名 | CASE / TICKET NO. 案件/告票號碼 | OFFENCE DATE 違例日期 | POINTS INCURRED 記分數目 | DATE INCURRED 記分日期 |
|---|---------------------------------|----------------------|----------------------------|-----------------------|
| FAILING TO COMPLY WITH TRAFFIC SIGNALS 沒有遵從交通燈的指示 | TE147763(8) | 13/12/2014 | 5 | 20/01/2015 |

Total: 1 Record(s)

共 1 項紀錄

- END OF RECORD -

- 紀錄完 -

If you have any enquiries, please contact our staff at 2860 6332 during office hours.
如有任何疑問，請於辦公時間內致電2860 6332 與本處職員聯絡。



Yours faithfully,

(CHEUNG CHING YEE)
for Commissioner of Police
警務處處長(張靜宜代行)

本人從沒有停牌
4A

Original Seen

PERSONAL DATA "個人資料"

14.5

NAME

姓名

DRIVING LICENCE NO. :

駕駛執照號碼



SERIAL NO.

編號

RECORD AS AT : 20/11/2017

紀錄截至

(c) Record of driving-offence points under Section 3(2) of the Road Traffic (Driving-Offence Points) Ordinance (Chapter 375) in the past five years

(丙) 過去五年內根據《道路交通（違例駕駛記分）條例》（第375章）第3(2)條的違例駕駛記分紀錄

| OFFENCE 罪名 | CASE / TICKET NO. 案件 / 告票號碼 | OFFENCE DATE 違例日期 | POINTS INCURRED 記分數目 | DATE INCURRED 記分日期 |
|---|-----------------------------------|----------------------|----------------------------|-----------------------|
| FAILING TO COMPLY WITH TRAFFIC SIGNALS 沒有遵從交通燈的指示 | TE147763(8) | 13/12/2014 | 5 | 20/01/2015 |


Total: 1 Record(s)
共 1 項紀錄

- END OF RECORD -
- 紀錄完 -

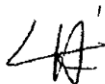
If you have any enquiries, please contact our staff at 2860 6332 during office hours.
如有任何疑問，請於辦公時間內致電2860 6332 與本處職員聯絡。




Yours faithfully,


(CHEUNG CHING YEE)
for Commissioner of Police
警務處處長(張靜宜代行)

My license has never been suspended



Original Seen




Our Ref.:
Your Ref.:
Tel. No. : 2804 2647
Fax No. : 2804 2592

28 February 2018

The Head of Human Resources Department
The Kowloon Motor Bus Co. (1933) Ltd.

Dear Sir/Madam,

I refer to your letter ref _____ and enclose herewith remarks against the drivers as shown in the table that you have attached to your earlier letter to us, together with the consent the drivers concerned.

With regard to the entries in the "OFFENCES" column:-

- (a) "Nil": no scheduled convictions are recorded within the past three years.
- (b) Three asterisks (***) plus a number: the record shows one or more convictions within the three year period for a "very serious scheduled offence", the number representing the number of convictions for such offence.
- (c) Two asterisk (**) plus a number: the record shows one or more convictions within the three year period for a "serious scheduled offence", the number representing the number of convictions for such offences.
- (d) One asterisk (*) plus a number: the record shows one or more convictions for a "scheduled offence" other than those considered to be serious within the three year period.

The information so provided is upon the consent of the persons concerned. Pursuant to the Personal Data (Privacy) Ordinance, it should be noted that the respective information shall not be released to any third party and should only be used for the purpose of recruitment of bus drivers.

It should be noted that under no circumstances shall the Government be liable for any loss to your company arising from the information given above.

Yours faithfully,

(Kelvin YEUNG)

for Commissioner for Transport

牌照事務組
Licensing Section
香港金鐘道九十五號統一中心三樓
3rd Floor United Centre 95 Queensway Hong Kong
網址 Web Site: <http://www.td.gov.hk>

3873

5007



九龍巴士 (一九三三) 有限公司
THE KOWLOON MOTOR BUS CO. (1933) LTD.

體格檢查－健康狀況聲明

Medical Examination – Health Status Declaration

僱員編號

Emp. No.:

職位

Position:

部門 / 廠別

Department / Depot:

身份證號碼

HKID No.:

姓名

Name:

聯絡電話

Contact No.:

性別

Sex:

年齡

Age:

茲聲明本人在過去或現在有 / 否以下之疾病 / 習慣

I hereby declare that I have / have not in the past or at present had the following sickness / habit:

請在適當方格加上 ✓ 號。 Please put a ✓ in the appropriate box.

| | 有 Yes | 否 No |
|--|--------------------------|-------------------------------------|
| (1) 癲癇症 Epilepsy | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (2) 高血壓 Hypertension | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (3) 心血管病 (例如: 冠心病) Cardiovascular diseases (e.g. coronary heart disease) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (4) 腦血管病 / 意外 (例如: 中風) Cerebrovascular diseases / accident (e.g. stroke) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (5) 精神紊亂 Mental disorder | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (6) 四肢 / 關節活動能力缺損 Impairment of limbs / joint movements | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (7) 任何導致肌肉不受控制的狀況 Any condition causing muscular incoordination | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (8) 未受控制的糖尿病 Uncontrolled diabetes mellitus | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (9) 任何引致不能有效地駕駛汽車的其他疾病或傷殘。(失聰除外) Any disease or disability which is likely to render a person incapable of effectively driving a motor vehicle. (except for deafness) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (10) 其他會引致昏暈發作的疾病 Other attacks of disabling giddiness or faintness | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (11) 眼部或視覺疾病 Eye or vision problems | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (12) 聽覺能力減退或耳部疾病 Hearing loss or ear disease | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (13) 運動時胸部痛楚 Chest pain on exercise | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (14) 腰背痛 (嚴重的或經常復發) 或 坐骨神經痛 Backache (severe / recurrent) or sciatica | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (15) 關節炎或風濕病 Arthritis or rheumatism | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (16) 接受長期藥物治療 Long-term medication | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (17) 高膽固醇 High Cholesterol | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (18) 嚴重意外受傷或曾接受任何手術 Serious accident or any operation | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (19) 染上毒癮 Drug addiction | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (20) 吸煙習慣 Smoke as a habit | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (21) 喝酒習慣 Drink alcohol as a habit | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (22) 做運動習慣 Do exercise as a habit | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Statistics of the venue of taking midday rest by KMB and LWB special shift bus captains

KMB

| Depot | Daily No. of BCs | | |
|--------------|------------------------------|-----------|------------|
| | Who Will Take Midday Rest At | | |
| | (as on 2018-08-15) | | |
| | Depot | Terminus | Home |
| LCKD | 55 | 72 | 148 |
| KBD | 29 | 51 | 283 |
| STD | 20 | 89 | 406 |
| TMD | 30 | 50 | 280 |
| Total | 134 (9%) | 262 (17%) | 1117 (74%) |

LWB

| Depot | Daily No. of BCs | | |
|-------|------------------------------|----------|----------|
| | Who Will Take Midday Rest At | | |
| | (as on 2018-08-15) | | |
| | Depot | Terminus | Home |
| LWB | 5 (8%) | 18 (31%) | 36 (61%) |

KMB and LWB

| Depot | Daily No. of BCs | | |
|--------------|------------------------------|-----------|------------|
| | Who Will Take Midday Rest At | | |
| | (as on 2018-08-15) | | |
| | Depot | Terminus | Home |
| LCKD | 55 | 72 | 148 |
| KBD | 29 | 51 | 283 |
| STD | 20 | 89 | 406 |
| TMD | 30 | 50 | 280 |
| LWB | 5 | 18 | 36 |
| Total | 139 (9%) | 280 (18%) | 1153 (73%) |

8. KMB - BUS SAFETY

8.1 Introduction

8.1.1. KMB is committed to providing safe, reliable and quality bus services in Hong Kong. Safety is an absolute pre-requisite in everything we do. We accord top priority to safety in our daily agenda to meet or exceed customers' expectations.

8.1.2. This chapter starts with an analysis of the types/causes of accidents in the past few years and the correlation of accident rates with respect to different factors, e.g. bus route, bus model, bus type, vehicle age, etc.

8.1.3. This chapter further discusses the various measures that have been or are being undertaken to enhance safety.

8.2 Analysis of Bus Accidents in accordance to the requirement stated by the Transport Department

Table 8.0 Overview of Analysis performed

Part I – Analysis of Traffic Accident

| | |
|-------|---|
| 8.2.1 | Trend of Accident Rates |
| 8.2.2 | Accidents by Nature |
| 8.2.3 | Accidents by Cause |
| 8.2.4 | Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty |
| 8.2.5 | Casualties |
| 8.2.6 | Accident Collision and Non-collision |

Part II - Analysis on Traffic Accident Related to Non-driver Factors

| | |
|--------|-----------------------------------|
| 8.2.7 | Accident by Location |
| 8.2.8 | Accident by Bus Routes |
| 8.2.9 | Accident by District |
| 8.2.10 | Accident by Bus Type |
| | Bus Model |
| | Single or Double Deck Buses |
| | Bus Length |
| 8.2.11 | Accidents by Vehicle Age |
| 8.2.12 | Accidents by Stairway Type of Bus |

Part I – Analysis of Traffic Accident

8.2.0.1. The Number of Injury/Death caused by Traffic Accidents involving KMB from 2015 to 2017 are shown in Table 8.1a. And the Number of Traffic Accidents involving KMB from 2015 to 2017 are shown in Table 8.1b.

Table 8.1a The number of injury/death on traffic accidents involving KMB from 2015-2017

| | 2015 | 2016 | 2017 |
|--------|------|------|------|
| Injury | 1278 | 1165 | 1460 |
| Death | 11 | 5 | 4 |
| Total | 1289 | 1170 | 1464 |

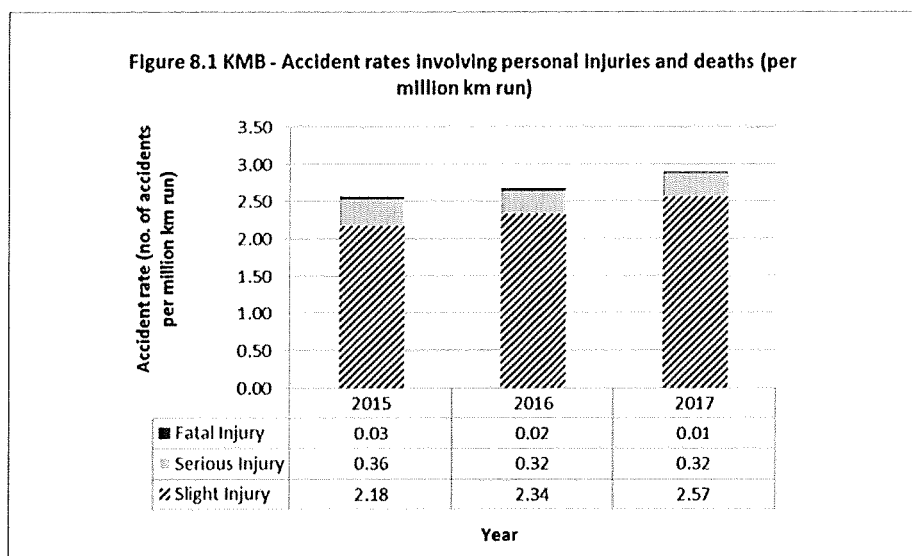
Further analysis
Table 8.3a, 8.3b

Table 8.1b Number of Traffic Accidents involving KMB

| | 2015 | 2016 | 2017 |
|---|------|------|------|
| Number of Traffic Accidents involving KMB | 853 | 881 | 956 |

8.2.1. Trend of Accident Rates

8.2.1.1. Accident rates from 2015 to 2017 are shown in Figure 8.1.



8.2.1.2. Table 8.2 showed the Contributory Factors of Traffic Accidents.

Table 8.2 Contributory Factors of Traffic Accidents

| Contributory Factors | 2015 | | 2016 | | 2017 | | |
|-------------------------------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|--|
| | no. of bus captains | % | no. of bus captains | % | no. of bus captains | % | |
| Bus captain not blameworthy factors | 671 | 79% | 638 | 72% | 755 | 79% | Further analysis Table 8.3a, 8.3b 8.4, 8.8, 8.10 |
| Bus captain blameworthy factors | 182 | 21% | 243 | 28% | 201 | 21% | |
| Total | 853 | 100% | 881 | 100% | 956 | 100% | |

8.2.1.3. The training of Bus Captain should further emphasis on defensive training to avoid accidents caused by improper driving behaviour of drivers of other vehicle, and misbehaviour of other road users/ passengers.

Mechanical Factors

8.2.1.4. In 2015-2017. Total 2 accidents which were bus captains not blameworthy related to mechanical factor, breakdown as below:

| Year | 2015 | 2016 | 2017 |
|-------|------|------|------|
| Count | 1 | 1 | 0 |

- 2015
 - One accident with injury to boarding passenger due to malfunction of the front gate platform.
- 2016
 - One accident on Collision with other vehicle due to due to no brake efficiency in one wheel caused by failure of slack adjuster. The brake of the rest 5 wheels are functioning properly.

Corrective action on the concerned vehicles were performed after inspection.

Accident Rate by Bus Captain's Years of Service

8.2.1.5. The results of an analysis on accident rate by experience in terms of years of service in the Company are shown in the below table:

| Bus Captain's Service Period | Accident Rate* | |
|------------------------------|----------------|------|
| | 2016 | 2017 |
| 0 - <1 year | 0.16 | 0.15 |
| 1 - <2 year | 0.14 | 0.19 |
| 2 - <3 year | 0.14 | 0.16 |
| 3 - <4 year | 0.13 | 0.18 |
| 4 - <5 year | 0.13 | 0.15 |
| 5 - <6 year | 0.10 | 0.13 |
| 6 - <7 year | 0.11 | 0.15 |
| 7 - <8 year | 0.10 | 0.13 |
| 8 - <9 year | 0.08 | 0.09 |
| 9 - <10 year | 0.09 | 0.11 |
| 10 - <15 year | 0.09 | 0.10 |
| 15 - <20 year | 0.06 | 0.06 |
| 20 year or above | 0.08 | 0.07 |

*The Accident Rate is calculated by:

$$\frac{\text{Count of bus captain involved in accident in the service period}}{\text{Total number of bus captain in the service period}}$$

8.2.1.6. The overall accident rate decrease when the bus captains accumulate experience of service.

8.2.1.7. Bus Captains with service experience between 0-1 year, the situation recorded improvement with accident rate noted 0.16 in 2016 and 0.15 in 2017. While for bus captains with service experience in 1-5 years, the situation recorded deteriorated.

8.2.1.8. KMB revamped the basic training programme. Apart from basic training including classroom lectures and on road training, buddy driver will be assigned to new bus captains. And the training program is revamped to standard driven from day driven. All route trainings has been converted to training on the wheel under the supervision of driving instructor.

8.2.1.9. Service monitoring will be more focus on Bus Captains in relatively short service period. On board checking will be conducted within half year from the first day of service for new bus captains.

8.2.2 Accidents by Nature

8.2.2.1. The results of an analysis of accident nature are shown in Table 8.3 below. The results are expressed in terms of absolute count and percentage of accidents during years 2015-2017.

Table 8.3a Accidents by nature by absolute count & percentage allocation, and the number of injury and death in 2015, 2016

| Accident Nature | 2015 | | | | | | 2016 | | | | | |
|---|--------------------|-------------|-----------------------------|-----------------|--------------------|-------------|--------------------|-------------|-----------------------------|-----------------|--------------------|-------------|
| | Number of accident | % | Number of injury | Number of death | Total injury/death | % | Number of accident | % | Number of injury | Number of death | Total injury/death | % |
| Non-Collision | | | | | | | | | | | | |
| Loss of Balance | 445 | 52% | 499 | 2 | 501 | 39% | 448 | 51% | 504 | 1 | 505 | 43% |
| Other non-collision nature | | | | | | | | | | | | |
| Injury To Alighting/Boarding Passenger | 22 | 3% | 23 | - | 23 | 2% | 33 | 4% | 33 | - | 33 | 3% |
| Injury To Passenger Inside Bus | 17 | 2% | 19 | - | 19 | 1% | 13 | 1% | 14 | - | 14 | 1% |
| Others | 4 | 0% | 22 | 1 | 23 | 2% | 6 | 1% | 10 | - | 10 | 1% |
| Non-Collision - sub-total | 488 | 57% | 563 | 3 | 566 | 44% | 500 | 57% | 561 | 1 | 562 | 48% |
| Collision | | | | | | | | | | | | |
| Collision With Third Party Vehicle (changing lane) | 88 | 10% | 117 | - | 117 | 9% | 109 | 12% | 151 | - | 151 | 13% |
| Head On/Tail Collision | 128 | 15% | 361 | 1 | 362 | 28% | 106 | 12% | 238 | 1 | 239 | 20% |
| Glancing Collision | 30 | 4% | 37 | - | 37 | 3% | 43 | 5% | 51 | - | 51 | 4% |
| Injury To Pedestrian | 43 | 5% | 42 | 5 | 47 | 4% | 40 | 5% | 41 | 3 | 44 | 4% |
| Junction Collision | 56 | 7% | 100 | 2 | 102 | 8% | 48 | 5% | 64 | - | 64 | 5% |
| Hit Stationary Object/Vehicle/Animal | 12 | 1% | 43 | - | 43 | 3% | 27 | 3% | 51 | - | 51 | 4% |
| Collision With Other Vehicle (rolling back/ forward/ reversing) | 5 | 1% | 5 | - | 5 | 0% | 6 | 1% | 6 | - | 6 | 1% |
| Entering Roundabout Collision | 3 | 0% | 10 | - | 10 | 1% | 1 | 0% | 1 | - | 1 | 0% |
| Bus Overturn/Topple | 0 | 0% | 0 | - | 0 | 0% | 1 | 0% | 1 | - | 1 | 0% |
| Collision - sub-total | 365 | 43% | 715 | 8 | 723 | 56% | 381 | 43% | 604 | 4 | 608 | 52% |
| | | | Further analysis Table 8.6b | | | | | | Further analysis Table 8.6b | | | |
| Grand Total | 853 | 100% | 1278 | 11 | 1289 | 100% | 881 | 100% | 1165 | 5 | 1170 | 100% |
| | | | Note 8.3.2 | | | | | | Note 8.3.2 | | | |

Table 8.3b Accidents by nature by absolute count & percentage allocation, and the number of injury and death in 2017

| Accident Nature | 2017 | | | | | | | | | |
|---|------------------------------|--------------|--------------------------|--------------|--------------------|-------------|-----------------------------|-----------------|--------------------|-------------|
| | Bus captain not blame-worthy | % (of total) | Bus captain blame-worthy | % (of total) | Number of accident | % | Number of injury | Number of death | Total injury/death | % |
| Non-Collision | | | | | | | | | | |
| Loss of Balance | 429 | 45% | 31 | 3% | 460 | 48% | 542 | - | 542 | 37% |
| Other non-collision nature | | | | | | | Further analysis Table 8.5 | | | |
| Injury To Alighting/Boarding Passenger | 17 | 2% | 14 | 1% | 31 | 3% | 31 | - | 31 | 2% |
| Injury To Passenger Inside Bus | 13 | 1% | 7 | 1% | 20 | 2% | 20 | - | 20 | 1% |
| Others | 4 | 0% | 1 | 0% | 5 | 1% | 4 | - | 4 | 0% |
| Non-Collision - sub-total | 463 | 48% | 53 | 6% | 516 | 54% | 597 | 0 | 597 | 41% |
| | | | | | | | Further analysis Table 8.5 | | | |
| Collision | | | | | | | | | | |
| Collision With Third Party Vehicle (changing lane) | 132 | 14% | 18 | 2% | 150 | 16% | 213 | - | 213 | 15% |
| Head On/Tail Collision | 41 | 4% | 79 | 8% | 120 | 13% | 397 | 1 | 398 | 27% |
| Glancing Collision | 47 | 5% | 12 | 1% | 59 | 6% | 66 | - | 66 | 5% |
| Injury To Pedestrian | 34 | 4% | 14 | 1% | 48 | 5% | 56 | 3 | 59 | 4% |
| Junction Collision | 34 | 4% | 10 | 1% | 44 | 5% | 77 | - | 77 | 5% |
| Hit Stationary Object/Vehicle/Animal | 1 | 0% | 14 | 1% | 15 | 2% | 50 | - | 50 | 3% |
| Collision With Other Vehicle (rolling back/ forward/ reversing) | 3 | 0% | 1 | 0% | 4 | 0% | 4 | - | 4 | 0% |
| Entering Roundabout Collision | 0 | 0% | 0 | 0% | 0 | 0% | 0 | - | 0 | 0% |
| Bus Overturn/Topple | 0 | 0% | 0 | 0% | 0 | 0% | 0 | - | 0 | 0% |
| Collision - sub-total | 292 | 31% | 148 | 15% | 440 | 46% | 863 | 4 | 867 | 59% |
| | | | | | | | Further analysis Table 8.6b | | | |
| Grand Total | 755 | 79% | 201 | 21% | 956 | 100% | 1460 | 4 | 1464 | 100% |

Note 8.3.2

Note 8.3.2

Note 8.3.2

Note 8.3.2

Further analysis Table 8.8

Note 8.3.1

Further analysis on number of Non-collision Franchised Bus Accidents Involving Passenger Casualty in 2017 was conducted. Total 511 (460 in nature of loss of balance, 31 in nature of injury during alighting/boarding, 20 in nature of injury inside bus) accidents noted. Please refer to Table 8.5 in section 8.2.4

Note 8.3.2

Refer Table 8.1a, 8.1b

Note 8.3.3

The breakdown of bus captain blame worthy and bus captain not blameworthy in 2015 and 2016 is excluded as the value for reference is low.

8.2.2.2. In 2017, non-collision accidents contributed 516 (54%) out of 956. Among it 460 cases were Passengers Loss of Balance (LOB). 429 out of 460 LOB cases were Bus Captain not blameworthy. It is suggested more passenger education is needed. On the other hand, 31 out of 416 LOB cases were Bus Captain blameworthy. The training of Bus Captain should further emphasis on avoiding harsh braking.

8.2.2.3. Table 8.3c shows the cause of the LOB cases from 2015-2017.

Table 8.3c Cause of Loss of Balance cases in 2015-2017

| | 2015 | | | | 2016 | | | |
|---|-----------------|-------------|--|-------------|-----------------|-------------|--|-------------|
| | Accident Count | | Casualties Count | | Accident Count | | Casualties Count | |
| | No. of accident | % | No. of casualties (all type) Note 8.3.4 | % | No. of accident | % | No. of casualties (all type) Note 8.3.4 | % |
| Accelerating - pull out from bus stop | 84 | 19% | 87 | 17% | 70 | 16% | 70 | 14% |
| Accelerating - start in traffic | 27 | 6% | 28 | 6% | 26 | 6% | 30 | 6% |
| Accelerating sub-total | 111 | 25% | 115 | 23% | 96 | 21% | 100 | 20% |
| Bus braking in traffic | 247 | 56% | 299 | 60% | 269 | 60% | 321 | 64% |
| Bus braking for stopping for passengers when pulling leaving bus stop | 34 | 8% | 34 | 7% | 27 | 6% | 27 | 5% |
| Braking sub-total | 281 | 63% | 333 | 66% | 296 | 66% | 348 | 69% |
| Bus Moving in traffic | 53 | 12% | 53 | 11% | 56 | 13% | 57 | 11% |
| Total Loss of Balance | 445 | 100% | 501 | 100% | 448 | 100% | 505 | 100% |

| | 2017 | | | | | | | |
|---|------------------------------|--------------------------|-----------------|-------------|------------------------------|--------------------------|--|-------------|
| | Accident Count | | | | Casualties Count | | | |
| | Bus captain not blame-worthy | Bus captain blame-worthy | No. of accident | % | Bus captain not blame-worthy | Bus captain blame-worthy | No. of casualties (all type) Note 8.3.4 | % |
| Accelerating - pull out from bus stop | 71 | 0 | 71 | 15% | 74 | 0 | 74 | 14% |
| Accelerating - start in traffic | 16 | 0 | 16 | 3% | 17 | 0 | 17 | 3% |
| Accelerating sub-total | 87 | 0 | 87 | 19% | 91 | 0 | 91 | 17% |
| Bus braking in traffic | 260 | 28 | 288 | 63% | 328 | 35 | 363 | 67% |
| Bus braking for stopping for passengers when pulling leaving bus stop | 17 | 1 | 18 | 4% | 18 | 1 | 19 | 4% |
| Braking sub-total | 277 | 29 | 306 | 67% | 346 | 36 | 382 | 70% |
| Bus Moving in traffic | 65 | 2 | 67 | 15% | 67 | 2 | 69 | 13% |
| Total Loss of Balance | 429 | 31 | 460 | 100% | 504 | 38 | 542 | 100% |

Note 8.3.4

Number of casualties includes all injury person count in an account including passengers, bus captains, other road users...etc

8.2.2.4. 87 (19%) out of 460 cases recorded in 2017 resulted from accelerating. Among these 71 cases occurred during the pull out of bus from bus stop. Better traffic management on enforcing the illegal occupy of bus stop by other vehicles, and education of other road users to give way to buses pulling out from bus stops will be able to improve the situation.

8.2.2.5. 306 (67%) out of 460 cases recorded in 2017 resulted from braking. KMB continue to enforce defensive driving for bus captains. Apart from this, several safety measures are adopted, examples as below:

- a) Educate passengers to hold the handrails via on board stickers and through Bus Stop Announcement System.
- b) Installations of safety features on buses to prevent/lower the harm when passengers loss of balance, for example, installation of cushion pads at the step well panel of straight staircase buses; installation of additional inner vertical handpoles on buses with straight staircases.

8.2.2.6. Collision related accidents contributed 440 (46%) out of 956. Among it 292 cases were Bus Captain not blameworthy and 148 cases were Bus Captains blameworthy. The training on bus captains should be enhanced. Remedial driving training will be arranged for bus captains who are involved in serious traffic accidents. Bus captains who are involved in repeated blameworthy traffic accidents are referred to the Bus Captain Training School to attend training. The training course includes defensive driving concepts, case studies, experience sharing and assessment.

8.2.2.7. Bus speed will be monitored by using the black box system. Raw data of speeding, harsh braking and abrupt acceleration will be generated weekly. For speeding cases, the Company will remind respective bus captains. For harsh braking and abrupt acceleration, plain clothes driving instructors will be deployed to conduct on-board check within one week. Disciplinary actions will be taken against bus captains with poor driving performance.

8.2.3 Accidents by Cause

8.2.3.1. For accidents caused by bus captain not blameworthy factors, the improvement measure focus on training of defensive driving. No further detail breakdown of factors to show.

8.2.3.2. For accidents caused by bus captain blameworthy factors. The results of an analysis of accident cause are shown in Table 8.4 below. The results are expressed by absolute count & percentage allocation and percentage of accidents during years 2015-2017.

Table 8.4 Accidents with Bus captains blameworthy factors by absolute count & percentage allocation

| Bus captains blameworthy factors | 2015 | | 2016 | | 2017 | |
|---|------------|-------------|------------|-------------|------------|-------------|
| | count | % | count | % | count | % |
| Non-Collision type accidents | | | | | | |
| Improper Braking | 6 | 3% | 36 | 15% | 20 | 10% |
| Failing To Ensure Safety Of Boarding Passenger | 5 | 3% | 14 | 6% | 7 | 3% |
| Insufficient Lookout | 1 | 1% | 2 | 1% | 7 | 3% |
| Failing To Ensure Safety Of Alighting Passenger | 8 | 4% | 5 | 2% | 5 | 2% |
| Improper Judgement | 2 | 1% | 4 | 2% | 2 | 1% |
| Disobeying Traffic Light | 0 | 0% | 0 | 0% | 1 | 0% |
| Improper Changing Lane | 2 | 1% | 0 | 0% | 1 | 0% |
| Disobeying Other Road Sign | 0 | 0% | 1 | 0% | 0 | 0% |
| Inappropriate Speed In Particular Condition | 0 | 0% | 2 | 1% | 0 | 0% |
| Others | 0 | 0% | 13 | 5% | 10 | 5% |
| Non-Collision sub-total | 24 | 13% | 77 | 32% | 53 | 26% |
| Collision type accidents | | | | | | |
| Failing To Keep Safe Distance From Front Veh | 71 | 39% | 60 | 25% | 67 | 33% |
| Insufficient Lookout | 32 | 18% | 17 | 7% | 20 | 10% |
| Improper Steering | 10 | 5% | 15 | 6% | 16 | 8% |
| Improper Changing Lane | 17 | 9% | 24 | 10% | 15 | 7% |
| Improper Braking | 5 | 3% | 4 | 2% | 5 | 2% |
| Improper Judgement | 3 | 2% | 9 | 4% | 5 | 2% |
| Disobeying Give Way Sign | 4 | 2% | 1 | 0% | 4 | 2% |
| Disobeying Traffic Light | 5 | 3% | 2 | 1% | 3 | 1% |
| Disobeying Stop Sign | 0 | 0% | 3 | 1% | 2 | 1% |
| Driving Too Close To Road Side | 0 | 0% | 2 | 1% | 2 | 1% |
| Failing To Apply Hand Brake Properly | 1 | 1% | 5 | 2% | 2 | 1% |
| Failing To Give Way To Veh In Main Road | 3 | 2% | 1 | 0% | 0 | 0% |
| Failing To Keep Proper Lane | 2 | 1% | 4 | 2% | 0 | 0% |
| Failing To Stop at Zebra Crossing | 1 | 1% | 0 | 0% | 0 | 0% |
| Improper Reversing | 1 | 1% | 2 | 1% | 0 | 0% |
| Inappropriate Speed In Particular Condition | 3 | 2% | 6 | 2% | 0 | 0% |
| Speeding | 0 | 0% | 0 | 0% | 0 | 0% |
| Others | 0 | 0% | 11 | 5% | 7 | 3% |
| Collision sub-total | 158 | 87% | 166 | 68% | 148 | 74% |
| Total | 182 | 100% | 243 | 100% | 201 | 100% |

Ref. to
Table 8.2

8.2.3.3. Three key factors related to bus captains in 2017 were:

- a) Failing to keep safe distance from front vehicle (33%, all from collision);
- b) Insufficient lookout (non-collision 3%, collision 10%, total 13%); and
- c) Improper braking (non-collision 10%, collision 2%, total 12%)

8.2.3.4. Bus Captain Training School will emphasis further in all bus captain training course, regardless of type, in respect to the factors shown on Table 8.4. Training & Quality Assurance Department will issue internal notice quarterly to remind bus captains on the major causes of accident that related to bus captains' driving behaviour.

8.2.4 Number of Non-collision Accidents Involving Passenger Casualty

8.2.4.1. Table 8.5 below shows the Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty in 2017.

Table 8.5 Number of Non-collision Accidents Involving Passenger Casualty in 2017

| | Count of Accidents where bus captain not blameworthy | No. of <u>passenger</u> casualties | Count of Accidents where bus captain blameworthy | No. of <u>passenger</u> casualties | Total count of accidents | No. of <u>passenger</u> casualties | |
|--|---|--|---|--|--------------------------------|--|---|
| Accidents involving passenger losing balance on stairway | 79 | 81 | 2 | 2 | 81 | 83 | Further analysis Section 8.2.12 Table 8.21 |
| Accidents involving passenger losing balance elsewhere except on stairway | 350 | 418 | 29 | 36 | 379 | 454 | |
| Accidents | | | | | | | |
| Sub-total related to Loss Of Balance | 429 | 499 | 31 | 38 | 460 | 537 | Note 8.5.1 |
| Accidents involving passenger injured by door | 12 | 12 | 12 | 12 | 24 | 24 | |
| Accidents involving passenger falling down or hitting bus fixture when the bus not in motion | 18 | 18 | 9 | 9 | 27 | 27 | |
| Number of Non-collision Accidents involving passenger casualty in 2017 | 459 (89% of 511) | 529 | 52 (11% of 511) | 59 | 511 | 588 | Ref. to Table 8.3 Further analysis on Table 8.6 Note 8.5.2 |
| Percentage over all accidents (Total 956) | 48% | - | 5% | - | 53% | - | |

Note 8.5.1

537 represents no. of PASSENGER casualties on LOB cases in 2017. The number of casualties of ALL person type for LOB is 542, see breakdown 1:

Note 8.5.1 Breakdown 1

| Casulties | Count |
|--------------|------------|
| Passenger | 537 |
| Bus captain | 3 |
| Pedestrian | 1 |
| Other driver | 1 |
| | <u>542</u> |

<Table 8.3b>

Note 8.5.2 Breakdown 2

| Casulties | Count |
|-------------------------|------------|
| Passenger | 588 |
| Bus captain | 4 |
| Pedestrian | 2 |
| Other vehicle driver | 2 |
| Other vehicle passenger | 1 |
| | <u>597</u> |

<Table 8.3b>

Note 8.5.2

588 represents no. of PASSENGER casualties on all Non- collision accidents in 2017. The number of casualties of ALL person type in 597, see breakdown 2:

8.2.4.2. Among the 511 non-collision accidents involving passenger casualty recorded in 2017, 459 (89%) were contributed by factors not related to Bus Captains.

8.2.4.3. Among these 459 accidents 429 were accidents involving passenger losing balance of which 79 accident incurred on stairway.

8.2.4.4. More passenger education on bus safety will help to arise the awareness of passengers and prevent accidents.

8.2.4.5. On Bus Captain trainings side, KMB produces its “Bus Captain Safe Driving Handbook” which is posted at staff website for all bus captains currently in its seventh edition (6 July 2018), the handbook includes driving regulations and points to note about safe driving, covering every aspect of a bus captain’s daily work. It is aimed at assisting bus captains in establishing a proper safe driving attitude and encouraging them to take all practical steps aimed at achieving safe driving.

8.2.4.6. Apart from the “Bus Captain Safe Driving Handbook”, KMB’s Bus Captain Training School provides intensive training for bus captains including bus type training, route trainings and the driver instructor will remind bus captains on different safety measures. Regular internal notice on safe driving are also issued to alert bus captains.

8.2.5 Casualties

8.2.5.1. Table 8.6a shows the number of passenger casualties in non-collision accidents by casualty position. More than one casualty can be noted in one accident. Should have better cross reference, in previous Loss of Balance analysis, add further analysis of the location of accident will be shown on 8.2.5.

Table 8.6a Passenger Casualties in Non-Collision Accidents by Casualty Position

| No. of passenger casualties & Percentage allocation | | | | | | | | | | |
|---|---|------|-------|------|-------|------|-------|------|-------|------|
| Casualty Position | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
| | count | % | count | % | count | % | count | % | count | % |
| Lower deck_standing | 144 | 21% | 138 | 23% | 120 | 22% | 101 | 18% | 121 | 21% |
| Lower deck_moving | 177 | 25% | 130 | 21% | 115 | 21% | 124 | 23% | 112 | 19% |
| Lower deck_sitting | 115 | 16% | 111 | 18% | 96 | 18% | 103 | 19% | 107 | 18% |
| Stairways | 161 | 23% | 120 | 20% | 110 | 20% | 113 | 21% | 86 | 15% |
| Entrance/exit door | 41 | 6% | 32 | 5% | 28 | 5% | 40 | 7% | 42 | 7% |
| Upper deck_seating | 22 | 3% | 16 | 3% | 9 | 2% | 13 | 2% | 20 | 3% |
| Record unavailable ^{Note 8.6.2} | 38 | 5% | 60 | 10% | 63 | 12% | 54 | 10% | 100 | 17% |
| Total | 698 | 100% | 607 | 100% | 541 | 100% | 548 | 100% | 588 | 100% |
| Ref to Table 8.5 | | | | | | | | | | |
| No. of fleet size as at 30 Jun of the year | 3782 | | 3840 | | 3842 | | 3810 | | 3939 | |
| Note 8.6.1 | The number record (86) for casualty position in Stairways includes all accidents and 83(recorded in Table 8.5) out of 86 were cause from Losing of Balance. | | | | | | | | | |
| Note 8.6.2 | Not all the casualty position can be recorded in all traffic accidents. In some cases, casualty unable to provide this information | | | | | | | | | |
| Note 8.6.3 | TD requested analysis on the number of casualties with categories by with and without seatbelt is not available as it has not been recorded. | | | | | | | | | |
| Note 8.6.4 | The table only indicated PASSENGER casualties, other type of casualties were excuded. | | | | | | | | | |

8.2.5.2. Table 8.6b shows the number of casualties (all type) in collision accidents by casualty position. The ratio is around 6:4 for casualty position inside and outside bus, where casualties recorded outside bus are other road users including pedestrians, cyclists, other vehicle drivers/passengers...etc

Table 8.6b Casualties in Collision Accidents by Casualty Position

| Casualty Position | No. of casualties & Percentage allocation | | | | | | | | | |
|-------------------|---|-------------|------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
| | count | % | count | % | count | % | count | % | count | % |
| Inside Bus | 537 | 61% | 409 | 56% | 439 | 61% | 357 | 59% | 504 | 58% |
| Outside Bus | 348 | 39% | 318 | 44% | 284 | 39% | 251 | 41% | 363 | 42% |
| Total | 885 | 100% | 727 | 100% | 723 | 100% | 608 | 100% | 867 | 100% |
| | | | | | Ref. table 8.3a | | Ref. table 8.3a | | Ref. table 8.3b | |

8.2.5.3. The allocation of the top four casualty position identified was similar from 2013-2017 in about 20% each out of the total number of casualties.

8.2.5.4. 2017 figures are similar to 2016. Passengers education should focus on the below:

- Reminding passengers to hold the handrail
- Avoid or be more mindful in use mobile devices while standing, leave the seats to get ready for alighting or change seats inside bus compartments when the buses were in motion

8.2.5.5. Table 8.7 shows the passenger casualties in non-collision accidents per 1000 buses.

Table 8.7 Passenger Casualties in Non-Collision Accidents (per 1000 buses)

| Casualty Position | No. of passenger casualties/1000 buses | | | | |
|---------------------|--|------------|------------|------------|------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| Lower deck_standing | 38 | 36 | 31 | 27 | 31 |
| Lower deck_moving | 47 | 34 | 30 | 33 | 28 |
| Lower deck_sitting | 30 | 29 | 25 | 27 | 27 |
| Stairways | 43 | 31 | 29 | 30 | 22 |
| Entrance/exit door | 11 | 8 | 7 | 10 | 11 |
| Upper deck_seating | 6 | 4 | 2 | 3 | 5 |
| Others | 10 | 16 | 16 | 14 | 25 |
| Total | 185 | 158 | 141 | 144 | 149 |

8.2.6 Accidents by Types – Collision and Non-collision

8.2.6.1. Table 8.8 shows the number accident by type of collision or non-collision with 2017 accidents figures further breakdown into accidents of Bus Captain blameworthy and bus captain not blameworthy factors.

| Table 8.8 Accident Type (Collision or Non-Collision) | | | | | | | | | | |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Accident Type | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
| | count | % | count | % | count | % | count | % | count | % |
| Non-Collision sub-total | 644 | 60% | 542 | 57% | 488 | 57% | 500 | 57% | 516 | 54% |
| Ref. to Table 8.3b | | | | | | | | | | |
| Collision | | | | | | | | | | |
| Vehicle-pedestrian | 69 | 6% | 35 | 4% | 43 | 5% | 40 | 5% | 48 | 5% |
| Vehicle-vehicle collision | 343 | 32% | 348 | 37% | 310 | 36% | 314 | 36% | 377 | 39% |
| Vehicle-object collision | 23 | 2% | 21 | 2% | 12 | 1% | 27 | 3% | 15 | 2% |
| Collision sub-total | 435 | 40% | 404 | 43% | 365 | 42% | 381 | 44% | 440 | 46% |
| Ref. to Table 8.3b | | | | | | | | | | |
| Grand Total | 1079 | 100% | 946 | 100% | 853 | 100% | 881 | 100% | 956 | 100% |
| Ref. to Table 8.2 | | | | | | | | | | |
| No. of fleet size as at 30 Jun of the year | 3782 | | 3840 | | 3842 | | 3810 | | 3939 | |

8.2.6.2. In 2017, 516 (54%) out of 956 of the accidents were non-collision. Among the 516 non-collision accidents, 463 cases were bus captain not blameworthy and 53 cases were bus captain blameworthy.

8.2.6.3. KMB provided proper training to our bus captains, and we have included defensive driving awareness in 車長安全駕駛手冊.

8.2.6.4. Apart from this, 440 (46%) out of 956 of the accidents were collision accidents. Among it 377 were vehicle-vehicle collision in which 257 were bus captain not blameworthy.

8.2.6.5. KMB was aware of the traffic condition in the road network, and keep proposing measures to the Government to ensure the smoothness of bus operations. Typical examples included recommend the Government to set up more Bus Only Lanes. On the other hand, KMB used to urge and facilitate the Government to resolve illegal parking problems. Accidents can be reduced with less other obstructions on the road.

8.2.6.6. Control of number of private cars can be one of the effective measures to reduce Vehicle-vehicle collision. With the Transport Advisory Committee's 2014 Report on Study of Road Traffic Congestion in Hong Kong warning that "Hong Kong's vehicle fleet size has been growing at an alarming rate". KMB share the same view and strongly recommend the Government should consider setting a limit on the number of private cars.

8.2.6.7. Driving attitude of other road users is one of the key in preventing accidents not blameworthy to Bus Captains. Promoting driving courtesy in respect of public transport vehicles is essential to road safety, as many bus related accidents are caused by improper driving attitude. Passengers on buses are more vulnerable to traffic accidents, so the Government should proactively educate drivers to give way to buses.

8.2.6.8. Regarding vehicle-pedestrians and vehicle-object collisions, KMB keeps proposing improvements on bus stops, bus termini and other observed safety hazard to Transport Department. Timely process of the proposals is required to minimize the hazard. It is also important for the Government to enforce traffic regulation and education to public in order to increase the awareness of road safety.

8.2.6.9. Table 8.9 shows the number accident by type of collision or non-collision per every 1000 buses.

Table 8.9 Accident Type (Collision or Non-Collision per 1000 buses)

| Accident Type | No. of accidents/1000 buses | | | | |
|------------------------------|-----------------------------|------------|------------|------------|------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| Non-Collision | 170 | 141 | 127 | 131 | 131 |
| Collision | | | | | |
| Vehicle-pedestrian collision | 18 | 9 | 11 | 10 | 12 |
| Vehicle-vehicle collision | 91 | 91 | 81 | 83 | 96 |
| Vehicle-object collision | 6 | 5 | 3 | 7 | 4 |
| Collision sub-total | 115 | 105 | 95 | 100 | 112 |
| Grand Total | 285 | 246 | 222 | 231 | 243 |

Part II - Analysis on Traffic Accident Related to Non-driver Factors

8.2.7 Accidents by Location

8.2.7.1. Table 8.10 shows the number accident by with 2017 accidents figures further breakdown into accidents contributed from factors related or not related to bus captains.

Table 8.10 Accident Location (by count and percentage allocation)

| Accident Location | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
|------------------------------------|-------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | count | % | count | % | count | % | count | % | count | % |
| On the Road | | | | | | | | | | |
| Junction | 33 | 3% | 41 | 4% | 43 | 5% | 30 | 3% | 43 | 4% |
| Roundabout | 19 | 2% | 28 | 3% | 19 | 2% | 20 | 2% | 16 | 1% |
| Other than Junction and Roundabout | 894 | 83% | 732 | 77% | 660 | 77% | 701 | 80% | 737 | 78% |
| Total On The Road | 946 | 88% | 801 | 84% | 722 | 84% | 751 | 85% | 796 | 83% |
| Bus Stop and Terminus | | | | | | | | | | |
| Bus Stop | 98 | 9% | 111 | 12% | 107 | 13% | 100 | 11% | 130 | 13% |
| Bus Terminus | 35 | 3% | 33 | 3% | 22 | 3% | 27 | 3% | 28 | 3% |
| Total at Bus Stop/Terminus | 133 | 12% | 144 | 15% | 129 | 16% | 127 | 14% | 158 | 16% |
| Depot | 0 | 12% | 1 | 0% | 2 | 0% | 3 | 0% | 2 | 0% |
| Total | 1079 | 100% | 946 | 100% | 853 | 100% | 881 | 100% | 956 | 100% |

Ref. to Table 8.2

Ref. to Table 8.2

Ref. to Table 8.2

* The requested analysis on vehicle direction is not available as it has not been recorded separately. Please refer to Tables 8.1 and 8.2 where parts of the vehicle direction are shown.

8.2.7.2. In 2017, among the locations with specific identification, 796 (83%) out of 956 accidents were recorded to happen on the road outside bus stops, termini and depots. Total 737 (78%) cases were recorded to happen on road sections other than roundabout and junction and 579 out of these 737 cases were not blameworthy to bus captains.

8.2.7.3. Transport Department encouraged the Company to submit proposals on improving bus safety, and committed will continue put effort to resolve the problems on illegal parking and loading/unloading activities at bus stops; traffic congestion; and traffic black spots. In fact, the Company used to regularly review potential safety hazard which threaten bus safety, and already submitted numerous concrete proposals to Transport Department to alert the problem identified and request for follow up.

8.2.7.4. The majority of bus termini in Hong Kong adopt the “multiple boarding islands” design, a bus terminus design in use since the 1970s. The design potentially induces crossing conflict, as passengers have to use the same lanes as buses. The design should be reviewed.

8.2.7.5. Illegal parking at bus stops is one of the cause of improper stopping of buses, by which road users' safety will be jeopardised as passengers have to board and alight on the roadway instead of using the bus stop. The increased the chance of traffic accidents. Buses and other vehicles overtaking illegally parked vehicles pose safety concerns for boarding and alighting passengers, as well as other road users.

8.2.7.6. The Company views effective measures should put in place to tackle the safety problem stemming from illegal parking.

8.2.7.7. Table 8.11 shows the number accident by location per 1000 buses with 2017 accidents figures further breakdown into accidents contributed from factors related or not related to bus captains.

Table 8.11 Accident Location (per 1000 buses)

| Accident Location | 2013 | 2014 | 2015 | 2016 | 2017 |
|------------------------------------|-------------|-------------|-------------|-------------|-------------|
| On the Road | | | | | |
| Junction | 9 | 11 | 11 | 8 | 11 |
| Roundabout | 5 | 7 | 5 | 5 | 4 |
| Other than Junction and Roundabout | 236 | 191 | 172 | 184 | 187 |
| Total On The Road | 250 | 209 | 188 | 197 | 202 |
| Bus Stop and Terminus | | | | | |
| Bus Stop | 26 | 29 | 28 | 26 | 33 |
| Bus Terminus | 9 | 9 | 6 | 7 | 7 |
| Total at Bus Stop/Terminus | 35 | 38 | 34 | 33 | 40 |
| Depot | 0 | 0 | 1 | 1 | 1 |
| Total | 285 | 246 | 222 | 231 | 243 |

8.2.8 Accidents by Bus Routes

8.2.8.1. Table 8.12 shows the number accident by Bus Routes between 2013-2017. Table 8.13 shows the number accident by Bus Routes per million km run between 2013-2017.

Table 8.12 Accident by Bus Route

| Bus Route | 2013 | | | 2014 | | | 2015 | | | 2016 | | | 2017 | | |
|--------------|-------------------------|-----------------------------|-----------|-------------------------|-----------------------------|-----------|-------------------------|-----------------------------|-----------|-------------------------|-----------------------------|-----------|-------------------------|-----------------------------|-----------|
| | Bus Captain Blameworthy | Bus Captain not blameworthy | Total | Bus Captain Blameworthy | Bus Captain not blameworthy | Total | Bus Captain Blameworthy | Bus Captain not blameworthy | Total | Bus Captain Blameworthy | Bus Captain not blameworthy | Total | Bus Captain Blameworthy | Bus Captain not blameworthy | Total |
| 1A | 3 | 16 | 19 | 1 | 20 | 21 | 1 | 12 | 13 | 8 | 10 | 18 | 6 | 9 | 15 |
| 6 | 1 | 4 | 5 | 2 | 4 | 6 | 0 | 4 | 4 | 0 | 3 | 3 | 0 | 13 | 13 |
| 64K | 2 | 6 | 8 | 3 | 11 | 14 | 1 | 7 | 8 | 4 | 10 | 14 | 1 | 12 | 13 |
| 59X | 0 | 5 | 5 | 1 | 2 | 3 | 1 | 4 | 5 | 2 | 5 | 7 | 3 | 8 | 11 |
| 74X | 3 | 12 | 15 | 3 | 7 | 10 | 1 | 4 | 5 | 2 | 9 | 11 | 4 | 7 | 11 |
| 101 | 0 | 6 | 6 | 0 | 5 | 5 | 0 | 9 | 9 | 0 | 3 | 3 | 3 | 8 | 11 |
| Total | 9 | 49 | 58 | 10 | 49 | 59 | 4 | 40 | 44 | 16 | 40 | 56 | 17 | 57 | 74 |

* Bus routes with no. of accidents more than 10 in 2017 are listed in this table.

Table 8.13 Accident by Bus Route (per million km run)

| Bus route | Journey distance | No. of accidents/ million km run | | | | |
|-----------|------------------|----------------------------------|------|------|------|------|
| | | 2013 | 2014 | 2015 | 2016 | 2017 |
| 1A | 10.5km | 10.7 | 11.9 | 7.2 | 9.9 | 8.2 |
| 6 | 8.3km | 5.8 | 7.4 | 4.9 | 3.7 | 16.1 |
| 64K | 22.5km | 3.6 | 6.6 | 3.7 | 6.4 | 6.0 |
| 59X | 31.1km | 1.3 | 0.8 | 1.2 | 1.6 | 2.6 |
| 74X | 24.1km | 3.7 | 2.5 | 1.2 | 2.6 | 2.7 |
| 101 | 19.4km | 3.5 | 3.0 | 5.4 | 2.0 | 7.8 |

* Only Bus routes with no. of accidents more than 10 in 2017 are listed in this table.

8.2.8.2. Bus Routes 1A, 6, 64K, 59X, 74X and 101 had more than 10 accidents in 2017.

8.2.8.3. Route 6 noted the highest rate of number of accident per million km run. This is due to the short journey distance (8.3 km) of the route compare to the rest five routes. With similar number of accident counts, the rate will be affected by the mileage the route operated.

8.2.8.4. Since the whole section of Route 6 (Lai Chi Kok to Tsim Sha Tsui) concentrated in busy districts. The utilisation of Route is high along whole route. Therefore even the journey distance is short, the busy nature contributed to high rate of accident per mileage run noted in Table 8.13.

8.2.8.5. There is no direct correlation on accidents and bus routes.

8.2.8.6. KMB will also remind the bus captains operating these routes to take care in view of the number of accidents noted.

8.2.9 Accidents by District

8.2.9.1. Table 8.14 shows the number accident by districts between 2013-2017.

Table 8.14 Accidents by District (count and percentage allocation)

| District | No. of accidents & Percentage allocation | | | | | | | | | |
|---------------------------------|--|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
| | count | % | count | % | count | % | count | % | count | % |
| Kowloon and NT | | | | | | | | | | |
| Yau Tsim Mong | 150 | 14% | 124 | 13% | 106 | 12% | 111 | 13% | 148 | 15% |
| Sham Shui Po | 134 | 12% | 101 | 11% | 108 | 13% | 114 | 13% | 121 | 13% |
| Kowloon City | 135 | 13% | 112 | 12% | 81 | 9% | 79 | 9% | 113 | 12% |
| Kwun Tong | 120 | 11% | 111 | 12% | 120 | 14% | 114 | 13% | 111 | 12% |
| Wong Tai Sin | 51 | 5% | 56 | 6% | 59 | 7% | 63 | 7% | 66 | 7% |
| Shatin | 88 | 8% | 72 | 8% | 61 | 7% | 60 | 7% | 59 | 6% |
| Kwai Tsing | 68 | 6% | 63 | 7% | 56 | 7% | 54 | 6% | 46 | 5% |
| Yuen Long | 43 | 4% | 50 | 5% | 23 | 3% | 42 | 5% | 41 | 4% |
| Tuen Mun | 42 | 4% | 47 | 5% | 28 | 3% | 39 | 4% | 40 | 4% |
| North | 27 | 3% | 28 | 3% | 37 | 4% | 38 | 4% | 37 | 4% |
| Tai Po | 47 | 4% | 44 | 5% | 31 | 4% | 35 | 4% | 37 | 4% |
| Tsuen Wan | 53 | 5% | 30 | 3% | 24 | 3% | 26 | 3% | 28 | 3% |
| Sai Kung | 35 | 3% | 32 | 3% | 49 | 6% | 43 | 5% | 27 | 3% |
| Sub total - Kln & NT | 993 | 92% | 870 | 92% | 783 | 92% | 818 | 93% | 874 | 91% |
| Hong Kong Island | | | | | | | | | | |
| Central & Western | 25 | 2% | 22 | 2% | 21 | 2% | 26 | 3% | 35 | 4% |
| Wan Chai | 28 | 3% | 28 | 3% | 22 | 3% | 16 | 2% | 25 | 3% |
| Eastern | 22 | 2% | 20 | 2% | 20 | 2% | 16 | 2% | 19 | 2% |
| Islands | 3 | 0% | 2 | 0% | 2 | 0% | 1 | 0% | 3 | 0% |
| Southern | 8 | 1% | 4 | 0% | 5 | 1% | 4 | 0% | 0 | 0% |
| Sub total - HKI | 86 | 8% | 76 | 8% | 70 | 8% | 63 | 7% | 82 | 9% |
| Total | 1079 | 100% | 946 | 100% | 853 | 100% | 881 | 100% | 956 | 100% |

8.2.9.2. 874 (91%) out of 956 accidents was recorded in Kowloon and NT area, which are KMB's prime operating areas. Over 10% of accidents occurred in Kowloon City, Kwun Tong, Sham Shui Po and Yau Tsim Mong respectively in 2017. These districts had high traffic flow and the correlation between number of accident is reasonable.

8.2.9.3. Traffic congestion is one of the causes of the high percentage of accidents noted in the busy districts. The Company recommends that proactive measures should be taken to resolve the congestion problem. We will discuss with the Government.

8.2.9.4. Bus priority is one of the key measures in smoothen bus operation and improve bus efficiency especially in congested road sections. The Company recommends the Government further enhance bus priority like introduce more Bus Only Lane in which KMB used to submit different proposals to Transport Department.

8.2.9.5. The analysis included only accident counts related to KMB with districts as requested by Transport Department. This analysis cannot reflect the full picture on the relationship between district and accident. The Company recommends the Government to investigate and analysis on the correlation by taking into account of other factors like accident rate on other transport modes. And derive concrete proposals to enhance road safety.

8.2.10 Accidents by Bus Type

8.2.10.1 Bus Type – Bus Model

8.2.10.1.1. The analysis of accidents by bus model is conducted by bus type, bus length and Single Deck/Double Deck.

8.2.10.1.2. Table 8.15 shows the number of accident per bus of the concerned bus model (between 2013-2017).

Table 8.15 Accidents by Bus Model (per bus of concerned bus model)

| Bus Model | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
|--------------------------------|---|------------------------------------|---|------------------------------------|---|------------------------------------|---|------------------------------------|---|------------------------------------|
| | Accident per bus of the concerned bus model | Count of accident of the bus model | Accident per bus of the concerned bus model | Count of accident of the bus model | Accident per bus of the concerned bus model | Count of accident of the bus model | Accident per bus of the concerned bus model | Count of accident of the bus model | Accident per bus of the concerned bus model | Count of accident of the bus model |
| DENNIS DRAGON 10M (A/C) | 0.26 | 52 | 0.26 | 23 | 0.16 | 8 | 0.28 | 14 | 0.50 | 1 |
| SCANIA K280UD 12M | N/A | 0 | N/A | 0 | 0.00 | 0 | 0.50 | 1 | 0.50 | 1 |
| VOLVO B9TL Wright Body EuroV | 0.32 | 92 | 0.30 | 98 | 0.23 | 94 | 0.29 | 129 | 0.31 | 175 |
| SCANIA K310UD 12M Caetano Body | 0.25 | 5 | 0.40 | 8 | 0.30 | 6 | 0.10 | 2 | 0.30 | 6 |
| VOLVO B9TL Wright Body | 0.33 | 21 | 0.32 | 20 | 0.17 | 11 | 0.24 | 15 | 0.30 | 19 |
| Trident Enviro500 | 0.38 | 102 | 0.30 | 80 | 0.33 | 88 | 0.31 | 85 | 0.29 | 77 |
| VOLVO B7RLE MCV SD | 0.16 | 11 | 0.11 | 8 | 0.33 | 23 | 0.27 | 19 | 0.29 | 16 |
| DENNIS TRIDENT 12M (A/C) | 0.36 | 156 | 0.28 | 130 | 0.22 | 110 | 0.21 | 81 | 0.28 | 61 |
| MAN 12M (A/C) | 0.32 | 15 | 0.19 | 9 | 0.13 | 6 | 0.15 | 7 | 0.28 | 13 |
| DENNIS TRIDENT 10.6M (A/C) | 0.38 | 57 | 0.44 | 65 | 0.32 | 48 | 0.30 | 45 | 0.26 | 38 |
| Trident E500 Turbo | 0.45 | 13 | 0.19 | 58 | 0.17 | 99 | 0.21 | 234 | 0.25 | 310 |
| VOLVO SUPER OLY 12M (A/C) | 0.24 | 118 | 0.24 | 116 | 0.24 | 116 | 0.18 | 87 | 0.22 | 105 |
| Trident E500 Turbo 12.8M | N/A | 0 | N/A | 0 | 0.50 | 1 | 0.34 | 22 | 0.21 | 32 |
| VOLVO B9TL Enviro500 | 0.41 | 35 | 0.26 | 22 | 0.28 | 24 | 0.13 | 11 | 0.19 | 16 |
| Dart E200 Single Door 10.4M SD | N/A | 1 | 0.09 | 1 | 0.00 | 0 | 0.00 | 0 | 0.18 | 2 |
| Trident Enviro400 EuroV | 0.27 | 14 | 0.22 | 11 | 0.20 | 10 | 0.31 | 16 | 0.18 | 9 |
| VOLVO SUPER OLY 10.6M | 0.41 | 41 | 0.29 | 29 | 0.19 | 19 | 0.21 | 21 | 0.18 | 18 |
| SCANIA Caetano 12M EuroIV SD | 0.17 | 5 | 0.17 | 5 | 0.34 | 10 | 0.14 | 4 | 0.17 | 5 |
| Trident Enviro500 EuroIV | 0.23 | 8 | 0.17 | 6 | 0.31 | 11 | 0.14 | 5 | 0.17 | 6 |
| Trident Enviro500 EuroV | 0.33 | 2 | 0.00 | 0 | 0.00 | 0 | 0.17 | 1 | 0.17 | 1 |
| VOLVO Super Oly Wright Body | 0.26 | 26 | 0.27 | 27 | 0.18 | 18 | 0.14 | 14 | 0.16 | 16 |
| NEOPLAN SLF 12M (A/C) | 0.26 | 42 | 0.17 | 27 | 0.11 | 17 | 0.17 | 27 | 0.14 | 21 |
| Dart Enviro200 EuroV SD | 0.27 | 8 | 0.17 | 5 | 0.10 | 3 | 0.30 | 9 | 0.13 | 4 |
| MAN ND323F 12M | N/A | 0 | N/A | 0 | N/A | 0 | N/A | 1 | 0.10 | 2 |
| SCANIA Caetano 10.6M EuroIV SD | 0.40 | 8 | 0.15 | 3 | 0.20 | 4 | 0.40 | 8 | 0.10 | 2 |
| NEO-MAN | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 1.00 | 1 | 0.00 | 0 |
| Trident E500 Hybrid 12M | N/A | 0 | N/A | 0 | 0.67 | 2 | 0.33 | 1 | 0.00 | 0 |
| VOLVO B9TL Wright Body 10.6M | 0.00 | 0 | 1.00 | 1 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| VOLVO B9TL Wright Body 12.8M | N/A | N/A | N/A | N/A | 0.00 | 0 | 0.50 | 0 | 0.00 | 0 |
| DENNIS DART SLF 10.7M | 0.30 | 3 | 0.20 | 2 | 0.22 | 2 | 0.00 | 0 | N/A | 0 |
| DENNIS DART SLF 10M | 0.20 | 1 | 0.00 | 0 | N/A | 0 | N/A | 0 | N/A | 0 |
| DENNIS DRAGON 11M (A/C) | 0.16 | 27 | 0.25 | 20 | N/A | 1 | N/A | 0 | N/A | 0 |
| DENNIS DRAGON 12M (A/C) | 0.15 | 26 | 0.17 | 28 | 0.14 | 24 | 2.00 | 4 | N/A | 0 |
| SCANIA 11.5M (A/C) | 0.30 | 6 | 0.22 | 2 | N/A | 0 | N/A | 0 | N/A | 0 |
| VOLVO 11.3M (A/C) | 0.23 | 96 | 0.20 | 83 | 0.23 | 70 | 1.14 | 16 | N/A | 0 |

* N/A: there was no bus of such bus model as at 30 Jun of the year.

8.2.10.1.3. Refer to Table 8.15, Dennis Trident 10m (A/C) and Scania K280UD 12m recorded accident per bus of 0.50 respectively in 2017. The reason is there were only 2 buses of these 2 bus types respectively in 2017. And each of them recorded 1 accident. Therefore the resulting figure was impacted by the small population.

8.2.10.1.4. Volvo B9TL Wright Body EuroV, Scania K310UD 12M Caetano Body, Volvo B9TL Wright Body recorded accident rate per bus of 0.30 – 0.31. No significant reason on the mechanical side The count of number of accident on the bus type and the accident per bus is being impacted by the fleet size of that bus model.

8.2.10.1.5. This result shows that no specific bus model contributed a high accident rate in general. And there is no direct correlation between accident rate and bus. Traffic accidents can be caused by factors in operating environments, routes, road conditions, bus captains, fleet sizes and other factors.

8.2.10.1.6. Table 8.16 shows the number accident per bus model (between 2013 - 2017). The bus model with more count of accidents in general in line with the number of that bus model in the fleet. No specific bus model got irregular record of accident rate. The Company view there is no specific relationship between accident rate and bus models.

Table 8.16 Accidents by Bus Model

| Bus Model | No. of accidents | | | | |
|--------------------------------|------------------|------------|------------|------------|------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| Trident E500 Turbo | 13 | 58 | 99 | 234 | 310 |
| VOLVO B9TL Wright Body EuroV | 92 | 98 | 94 | 129 | 175 |
| VOLVO SUPER OLY 12M (A/C) | 118 | 116 | 116 | 87 | 105 |
| Trident Enviro500 | 102 | 80 | 88 | 85 | 77 |
| DENNIS TRIDENT 12M (A/C) | 156 | 130 | 110 | 81 | 61 |
| DENNIS TRIDENT 10.6M (A/C) | 57 | 65 | 48 | 45 | 38 |
| Trident E500 Turbo 12.8M | 0 | 0 | 1 | 22 | 32 |
| NEOPLAN SLF 12M (A/C) | 42 | 27 | 17 | 27 | 21 |
| VOLVO B9TL Wright Body | 21 | 20 | 11 | 15 | 19 |
| VOLVO SUPER OLY 10.6M | 41 | 29 | 19 | 21 | 18 |
| VOLVO B7RLE MCV SD | 11 | 8 | 23 | 19 | 16 |
| VOLVO B9TL Enviro500 | 35 | 22 | 24 | 11 | 16 |
| VOLVO Super Oly Wright Body | 26 | 27 | 18 | 14 | 16 |
| MAN 12M (A/C) | 15 | 9 | 6 | 7 | 13 |
| Trident Enviro400 EuroV | 14 | 11 | 10 | 16 | 9 |
| SCANIA K310UD 12M Caetano Body | 5 | 8 | 6 | 2 | 6 |
| Trident Enviro500 EuroIV | 8 | 6 | 11 | 5 | 6 |
| SCANIA Caetano 12M EuroIV SD | 5 | 5 | 10 | 4 | 5 |
| Dart Enviro200 EuroV SD | 8 | 5 | 3 | 9 | 4 |
| Dart E200 Single Door 10.4M SD | 1 | 1 | 0 | 0 | 2 |
| MAN ND323F 12M | 0 | 0 | 0 | 1 | 2 |
| SCANIA Caetano 10.6M EuroIV SD | 8 | 3 | 4 | 8 | 2 |
| DENNIS DRAGON 10M (A/C) | 52 | 23 | 8 | 14 | 1 |
| SCANIA K280UD 12M | 0 | 0 | 0 | 1 | 1 |
| Trident Enviro500 EuroV | 2 | 0 | 0 | 1 | 1 |
| DENNIS DART SLF 10.7M | 3 | 2 | 2 | 0 | 0 |
| DENNIS DART SLF 10M | 1 | 0 | 0 | 0 | 0 |
| DENNIS DRAGON 11M (A/C) | 27 | 20 | 1 | 0 | 0 |
| DENNIS DRAGON 12M (A/C) | 26 | 28 | 24 | 4 | 0 |
| NEO-MAN | 0 | 0 | 0 | 1 | 0 |
| SCANIA 11.5M (A/C) | 6 | 2 | 0 | 0 | 0 |
| Trident E500 Hybrid 12M | 0 | 0 | 2 | 1 | 0 |
| VOLVO 11.3M (A/C) | 96 | 83 | 70 | 16 | 0 |
| VOLVO 12M (A/C) | 88 | 59 | 28 | 0 | 0 |
| VOLVO B9TL Wright Body 10.6M | 0 | 1 | 0 | 0 | 0 |
| VOLVO B9TL WrightBody 12.8M | 0 | 0 | 0 | 1 | 0 |
| Total | 1079 | 946 | 853 | 881 | 956 |

8.2.10.2 Bus Type – Single or Double Deck Buses

8.2.10.2.1. Table 8.17 shows the number of accident per bus of Single/Double Deck Buses, and the count of accident recorded for Single/Double Deck Buses (between 2013-2017).

Table 8.17 Accidents by Bus Type

| Bus Type | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
|-----------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|
| | Per bus of the concerned bus type | Count of accident of the bus model | Per bus of the concerned bus type | Count of accident of the bus model | Per bus of the concerned bus type | Count of accident of the bus model | Per bus of the concerned bus type | Count of accident of the bus model | Per bus of the concerned bus type | Count of accident of the bus model |
| Double Deck Bus | 0.29 | 1046 | 0.25 | 924 | 0.22 | 813 | 0.23 | 841 | 0.25 | 927 |
| Single Deck Bus | 0.22 | 33 | 0.14 | 22 | 0.25 | 40 | 0.24 | 40 | 0.18 | 29 |
| Total | 0.29 | 1079 | 0.25 | 946 | 0.22 | 853 | 0.23 | 881 | 0.24 | 956 |

8.2.10.2.2. Accident rates (no. of accidents per bus of the concerned bus type) of double deck bus and single deck bus were 0.25 and 0.18 respectively in 2017.

8.2.10.2.3. Single Deck buses account for 3% of the Company's bus fleet in 2017. The number of accident of Single Deck buses is reasonably to be recorded lower than Double Deck buses.

8.2.10.2.4. All vehicle deployment of a route on a particular road section was approved by the Transport Department before the route comes to operation. As an operator, KMB will deploy suitable bus types to in accordance to different road constraints.

8.2.10.2.5. There is no direct correlation between Bus Accidents and Single or Double Deck Buses.

8.2.10.3 Bus Type – Bus Length

8.2.10.3.1. Table 8.18 and 8.19 shows the number of accident per bus and the count of accident recorded of buses in different bus length (between 2013-2017).

Table 8.18 Accidents by Bus Length (per bus with the concerned bus length)

| Bus Length (m) | No. of accidents per bus | | | | |
|----------------|--------------------------|------|------|------|------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| 10 | 0.25 | 0.25 | 0.16 | 0.28 | 0.50 |
| 12 | 0.29 | 0.24 | 0.22 | 0.22 | 0.25 |
| 12.8 | N/A | N/A | 0.25 | 0.35 | 0.21 |
| 10.6 | 0.37 | 0.34 | 0.25 | 0.28 | 0.21 |
| 10.4 | 0.30 | 0.15 | 0.07 | 0.22 | 0.15 |
| 10.7 | 0.30 | 0.20 | 0.22 | - | N/A |
| 11 | 0.16 | 0.25 | N/A | N/A | N/A |
| 11.3 | 0.23 | 0.20 | 0.23 | 1.14 | N/A |
| 11.5 | 0.30 | 0.22 | N/A | N/A | N/A |

* N/A: there was no bus with such length as at 30 Jun of the year.

Table 8.19 Accidents by Bus Length

| Bus Length (m) | No. of accidents | | | | |
|----------------|------------------|------------|------------|------------|------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| 12 | 765 | 701 | 687 | 729 | 850 |
| 10.6 | 120 | 109 | 81 | 90 | 67 |
| 12.8 | 0 | 0 | 1 | 23 | 32 |
| 10.4 | 9 | 6 | 3 | 9 | 6 |
| 10 | 53 | 23 | 8 | 14 | 1 |
| 10.7 | 3 | 2 | 2 | 0 | 0 |
| 11 | 27 | 20 | 1 | 0 | 0 |
| 11.3 | 96 | 83 | 70 | 16 | 0 |
| 11.5 | 6 | 2 | 0 | 0 | 0 |
| Total | 1079 | 946 | 853 | 881 | 956 |

8.2.10.3.2. Accident rate of bus with length of 10m was the highest, 0.50 in 2017. However, there were just two 10m buses. The accident rate is be distorted by the small population.

8.2.10.3.3. The count of bus accidents on 12m buses record highest in past 5 years, it is merely due to 12m buses are the major length of buses in KMB's fleet. Table 8.18 shows there number of accidents per bus is 0.25 for 12m buses. Compare to 0.21 for 12.8m buses and 10.6m buses, the difference is 0.04.

8.2.10.3.4. All vehicle deployment of a route on a particular road section was approved by the Transport Department before the route comes to operation.

8.2.10.3.5. Internally, trial run will be conducted before bus routes comes to operation.

8.2.10.3.6. For bus routes to be operated by 12.8m buses, approval will be obtained by the Transport Department in advance. Bus captains will also receive additional training for driving 12.8m buses.

8.2.10.3.7. There is no direct correlation between Bus Accidents and Bus length.

8.2.11 Accident by Vehicle Age

8.2.11.1. Table 8.20 shows the count of accident and number of accident per bus to the year the bus is first licensed (between 2013-2017).

Table 8.20 Accidents by Vehicle Age (Count of accidents and per bus of the concerned age)

| Year of bus licensed | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
|-----------------------|-------------|------------------|------------|------------------|------------|------------------|------------|------------------|------------|------------------|
| | Count | Accident per bus | Count | Accident per bus | Count | Accident per bus | Count | Accident per bus | Count | Accident per bus |
| 2000 or before | 494 | 0.25 | 391 | 0.23 | 275 | 0.21 | 166 | 0.25 | 90 | 0.22 |
| 2001 | 89 | 0.29 | 71 | 0.23 | 67 | 0.22 | 59 | 0.19 | 57 | 0.18 |
| 2002 | 114 | 0.32 | 111 | 0.31 | 90 | 0.25 | 65 | 0.18 | 89 | 0.25 |
| 2003 | 79 | 0.41 | 56 | 0.29 | 50 | 0.26 | 45 | 0.24 | 54 | 0.28 |
| 2004 | 53 | 0.30 | 55 | 0.31 | 58 | 0.33 | 46 | 0.26 | 41 | 0.23 |
| 2005 | 10 | 0.21 | 16 | 0.34 | 10 | 0.21 | 10 | 0.21 | 12 | 0.26 |
| 2006 | 43 | 0.40 | 26 | 0.24 | 21 | 0.19 | 30 | 0.28 | 28 | 0.26 |
| 2007 | 18 | 0.34 | 11 | 0.21 | 12 | 0.23 | 6 | 0.11 | 10 | 0.19 |
| 2008 | 12 | 0.60 | 5 | 0.25 | 7 | 0.35 | 2 | 0.10 | 4 | 0.20 |
| 2009 | 14 | 0.27 | 6 | 0.12 | 12 | 0.24 | 13 | 0.25 | 5 | 0.10 |
| 2010 | 33 | 0.25 | 29 | 0.22 | 39 | 0.30 | 29 | 0.22 | 35 | 0.30 |
| 2011 | 62 | 0.27 | 59 | 0.26 | 39 | 0.17 | 52 | 0.23 | 52 | 0.23 |
| 2012 | 38 | 0.32 | 39 | 0.33 | 29 | 0.24 | 36 | 0.30 | 32 | 0.27 |
| 2013 | 20 | 0.41 | 49 | 0.20 | 30 | 0.12 | 44 | 0.18 | 52 | 0.21 |
| 2014 | 0 | N/A | 22 | 0.18 | 61 | 0.23 | 70 | 0.27 | 70 | 0.27 |
| 2015 | 0 | N/A | 0 | N/A | 53 | 0.22 | 136 | 0.23 | 177 | 0.30 |
| 2016 | 0 | N/A | 0 | N/A | 0 | N/A | 72 | 0.27 | 103 | 0.21 |
| 2017 | 0 | N/A | 0 | N/A | 0 | N/A | 0 | N/A | 45 | 0.27 |
| Total | 1079 | | 946 | | 853 | | 881 | | 956 | |

* N/A: there was no bus licensed on the year as at 30 Jun of the year.

8.2.11.2. The accident rates by the first licensed year of the buses ranged from 0.10 to 0.30 in 2017.

8.2.11.3. There is no direct correlation between Bus Accidents and vehicle age.

8.2.12 Accidents by Stairway Type of Bus

8.2.12.1. Table 8.21 shows the count of accidents involving passenger losing balance on stairway in 2017.

Table 8.21 Accidents involving passenger losing balance on stairway

| Stairway Type | 2017 | | Total | (%) |
|---------------|--------------------------|------------------------------|-----------|-----|
| | Bus captain blame-worthy | Bus captain not blame-worthy | | |
| Spiral | 23 | - | 23 | 28% |
| Straight | 56 | 2 | 58 | 72% |
| Total | 79 | 2 | 81 | |

Ref. to
Table 8.5

8.2.12.2. 23 (28%) out of 81 cases recorded on buses with spiral stairway and 58 (72%) out of 81 cases recorded on buses with straight stairway. The proportion aligns with the number of spiral and straight stairway type buses in KMB's fleet in 2017.^{Note} This shows the stairway type does not directly correlate to accident rate.

Note: At end 2017, the proportion of spiral and straight stairway type buses in KMB Fleet was 27:73.

8.2.12.3. Table 8.22 shows the count of accident and number of accident per bus to the year the bus is first licensed. Table 8.22 shows the accident rates of buses with spiral stairways and straight stairways (between 2013-2017).

8.2.12.4. Table 8.23 shows there is no significant difference in the accidents by stairway types per bus in spiral/straight stairway types. The Company views there is no direct correlation between Bus Accidents and stairway type of the bus.

Table 8.22 Accidents by Stairway Type of Bus

| Stairway type | No. of accidents | | | | |
|--------------------|------------------|------------|------------|------------|------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| Spiral | 724 | 591 | 447 | 303 | 262 |
| Straight | 318 | 331 | 364 | 538 | 665 |
| Single Deck | 37 | 24 | 42 | 40 | 29 |
| Total | 1079 | 946 | 853 | 881 | 956 |

Table 8.23 Accidents by Stairway Type of Bus (per bus of the concerned bus type)

| Stairway type | No. of accidents per bus | | | | |
|-----------------|--------------------------|------|------|------|------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| Spiral | 0.27 | 0.25 | 0.22 | 0.22 | 0.22 |
| Straight | 0.33 | 0.26 | 0.22 | 0.24 | 0.26 |

8.3 Improvement Measures

8.3.1. Further to the analysis in Section 8.2, bus safety can be improved in the following aspects in addition to bus safety features, training and performance monitoring of bus captains:

- Passenger Education (refer to 8.6.13-14)
- Road User Education (refer to 8.6.11-12)
- Traffic Management (refer to 8.6.3-10)
- Training in Defensive Driving (refer to 8.6.15)

8.3.2. Apart from this, KMB has taken the below new initiatives in 2018-2019:

- a) Conducted an expedition to United Kingdom, and is cooperating with the Queen's University of Belfast to conduct a study and develop the Advanced Driver Assistance System (ADAS).
- b) Engaged an external consultant - The Direx Solutions, to conduct a review on our bus operation.
- c) To adopt the Government's Digital Map system in updating the operational information
- d) To shorten the transmission of data from 'black box' from every 30s to every 10s.
- e) To enhance the speeding alert function of Openmatics black box. (ref to 8.3.4)

8.3.3. After the Tai Po Road Bus Accident, KMB set up a special committee, which came up recommendations on bus safety. Subsequently, the management formulated the action plan for implementation. Please refer to page 32 to 43 for the progress of implementation as of 1 August 2018.

Action plan for implementation of the Key Recommendations

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) | | | | | | | | | | | | |
|--|---|--|----|--|-----|---------|---|---|---|----|--|-----|---------|----|
| Recruitment | | | | | | | | | | | | | | |
| 1. To discontinue the employment of part time BCs whose working hours fall below 18 hours per week. | No more new employment of part time BC with working hours below 18 hours per week since 15 February 2018. <u>Milestone</u> 15 February 2018 | Same as before. | | | | | | | | | | | | |
| 2. To offer the previous part time BCs the option to convert to contract hourly rated BCs or to take up alternative duties in the Company. | Status of the 209 previous part time BCs: <table border="1"><tr><td>Agreed to work \geq18 hours a week</td><td>78</td></tr><tr><td>Agreed to work over 10 hours a week; declare doing part-time BCs at KMB will not breach the employment contract with their employer.</td><td>123</td></tr><tr><td>Quitted</td><td>8</td></tr></table> | Agreed to work \geq 18 hours a week | 78 | Agreed to work over 10 hours a week; declare doing part-time BCs at KMB will not breach the employment contract with their employer. | 123 | Quitted | 8 | Status of the 209 previous Hourly Rated BCs: <table border="1"><tr><td>Contract signed (work \geq18 hours a week)</td><td>73</td></tr><tr><td>Contract signed (work over 10 hours a week); declared doing Hourly Rated BC at KMB will not breach the employment contract with their employer</td><td>109</td></tr><tr><td>Quitted</td><td>27</td></tr></table> | Contract signed (work \geq 18 hours a week) | 73 | Contract signed (work over 10 hours a week); declared doing Hourly Rated BC at KMB will not breach the employment contract with their employer | 109 | Quitted | 27 |
| Agreed to work \geq 18 hours a week | 78 | | | | | | | | | | | | | |
| Agreed to work over 10 hours a week; declare doing part-time BCs at KMB will not breach the employment contract with their employer. | 123 | | | | | | | | | | | | | |
| Quitted | 8 | | | | | | | | | | | | | |
| Contract signed (work \geq 18 hours a week) | 73 | | | | | | | | | | | | | |
| Contract signed (work over 10 hours a week); declared doing Hourly Rated BC at KMB will not breach the employment contract with their employer | 109 | | | | | | | | | | | | | |
| Quitted | 27 | | | | | | | | | | | | | |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|--|--|
| Training | | |
| 3. All newly recruited BC candidates should be subject to the same standard of training i.e. phase 1 of training to meet the standard of passing 17 (public bus (franchised)) driving test conducted by TD; and phase 2 of training to meet the standard required by KMB including safe driving techniques, emotional control and route training. | <p>New recruits that only possess driving licenses 1 & 2, should undergo both Phase 1 and Phase 2 of training.</p> <p>Those who have already possessed driving license 10 or 17, and passed BCTS' pre-course driving assessment, are allowed to join Phase 2.</p> <p>In case he/she failed the pre-course driving assessment, he/she has to start from Phase 1.</p> <p>The same rule also applies to internal staff members.</p> <p><u>Milestone</u> The above action has been implemented from 14 March 2018.</p> | Same as before. |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|---|--|
| 4. Bus Captain Training School should extend the route training to all bus routes operated by KMB. Each BC is required to get trained with an instructor for each new route. | <p>Each BC is required to receive formal route training delivered by a BCTS' driving instructor ("DI") in the ratio of 1:6 before he/she is deployed to drive a new route.</p> <p>After the training, a DI will authorize the BC to drive the new route and the BC will also sign an agreement that he/she is familiar with the route. The record will be kept in computer.</p> <p><u>Milestone</u> The above action plan has taken effect from 15 February 2018.</p> | Same as before. |
| 5. Any BC who is convicted of careless driving or has committed multiple traffic contraventions should attend remedial training. | <p>Performance managers will refer BCs who were convicted of careless driving or with poor driving record to BCTS for remedial training.</p> <p><u>Milestone</u> On-going (it has been an established practice).</p> | Same as before. |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|---|---|--|
| 6. Any BC who has taken a consecutive period of leave for 30 days or more or has been cumulatively absent from work for 30 days in a 2 month period should attend a full day remedial training. | <p>HRD and Operations will refer BCs who have not performed consecutive driving duty for 30 days or more, due to sick leave and injury leave or due to operational reasons, to BCTS for a full day remedial training respectively.</p> <p>A full day remedial training for BCs who have been cumulatively absent from duty for over 30 days or more in a 2-month period will be required subject to consultation and subsequent agreement with the trade unions.</p> <p><u>Milestone</u> On-going</p> | <p>On-going.</p> <p>No consultation and agreement yet.</p> |
| 7. The number of KMB driving instructors should be increased to a total of 110. | <p>An additional 15 DI licenses have been approved by TD. The selection of DI candidates was completed on 19 March 2018. The DI candidates would complete all training and necessary TD's exams before 30 June 2018 to form a cadre of 81 DIs.</p> <p><u>Milestone</u> With the capacity of 81 DIs, the workload of DIs and the necessity of additional DIs will be reviewed in Q3 2018 and an application of additional 29 DI licenses, to form a cadre of 110, will be submitted.</p> | <p>16 DI candidates have attended and passed TD's written examination and driving test by June 2018 and joined BCTS to form a cadre of 81 DIs.</p> <p><u>Milestone</u> Same as before.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|---|---|
| Performance | | |
| 8. Each newly recruited BC should declare his employment, whether on a part time or full time basis; any serious illness that would affect road safety, and criminal records. KMB should conduct a formal assessment on each BC. | <p>The following requirements have been implemented for all newly hired BCs:</p> <ul style="list-style-type: none"> - declaration of illness; - declaration of criminal record; and - traffic conviction check. <p>Remark: No new hire of part-time BC since 15 February 2018.</p> | Same as before. |
| 9. KMB should conduct a traffic conviction search for each contract hourly rated BC every 6 months whereas all full time BCs including employed retirees on an annual basis. | <p>New BCs are required to submit their traffic conviction records during recruitment.</p> <p>In-service contract hourly rate BCs (previously known as part-time BCs) have to submit their traffic conviction records every 6 months.</p> <p>Checking the traffic conviction record of in-service full-time BCs will be subject to consultation and subsequent agreement with the trade unions.</p> | <p>For new hire: traffic conviction check has been implemented and has become an on-going measure.</p> <p>For in service contract hourly rated BCs: the first round of traffic conviction check was completed in April 2018. Next round will be done in October 2018.</p> <p>For in service full time BCs: will consult the trade unions and the BCs affected by end of September 2018.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|--|--|
| <p>10. KMB should monitor BCs' performance by analyzing his driving record from the black box installed on buses and improve the effectiveness and timeliness of follow up disciplinary actions on BCs' inappropriate driving behavior and attitude.</p> | <p>Operations Sections will continue monitoring bus speed by using the "BOP 207" functions in the black box system. Checking is done on a daily basis. BOP 207 is capable of checking speeding that occurred 10 days before. Any abnormalities will be dealt with and reported promptly to TQD, which will then commence disciplinary procedures.</p> <p><u>Milestone</u></p> <p>IT Dept. is in the process of enhancing the presentation of the Bus Performance Reports to facilitate monitoring speeding, harsh braking and abrupt acceleration. After the enhancement of BOM System, Operation Sections will analyze the data of preceding 8 days twice a week to provide driving records of BCs with irregularities. The reports will be passed to TQD twice a week. Immediate actions will be taken to alert respective BCs to deter them from committing the same faults. The whole process will finish in 14 working days. Upon confirmation of the speedometer check is correct, a follow-up action of issuing warning letter or appropriate disciplinary actions will be taken.</p> | <p>Operations Sections will continue monitoring bus speed by using the "BOP 207" functions in the black box system. Checking is done on a daily basis. BOP 207 is capable of checking speeding that occurred 4 days before. Any abnormalities will be dealt with and reported promptly to TQD, which will then commence disciplinary procedures.</p> <p>Raw data of speeding, harsh braking and abrupt acceleration will be generated weekly. For speeding cases, Operation Sections will be informed to remind respective BCs. For harsh braking and abrupt acceleration, plain clothes driving instructors will be deployed to conduct on-board check within one week. TQD will take disciplinary actions against BCs with poor driving performance.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|---|--|--|
| <p>11. The Training and Quality Assurance Department of KMB should take disciplinary actions against BCs with problems of speeding, abrupt acceleration, harsh braking and other poor performance within 14 working days.</p> | <p>Refer to the answer to item 10 above.</p> | <p>Refer to the answer to item 10 above.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|---|---|
| Working conditions | | |
| 12. KMB should implement the revised Guidelines on Bus Captain Working Hours, Rest times and Meal Breaks by the end of 2018 and reduce the maximum working hours for split duties to 13 hours. | <p>The implementation plan of the revised Guidelines will be as follows: -</p> <ol style="list-style-type: none"> Computer system modifications below will be conducted between April and December 2018: <ul style="list-style-type: none"> scheduling system modifications between April and May 2018 duty rostering system modifications between May and September 2018 duty dispatching system modifications between July and October 2018 modifications of reports for guidelines checking for actual duty between November and December 2018 Guideline number (2) will be fully complied effective from 1 November 2018 Rescheduling bus and crew duties will be implemented by phases starting from October 2018, and to be completed by end of April 2019 Guideline number (1)(a), (1)(b), (3) will be fully complied effective from 1 May 2019 <p>Reduction of maximum working hours for split duties to 13 hours will be reviewed upon the full implementation of the revised Guidelines.</p> | <p>Same as before.</p> <p>Everything is on schedule.</p> <p>Scheduling system modification was completed in May 2018.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|---|--|--|
| Psychological support | | |
| 13. KMB should engage a professional consultant to provide a comprehensive review of the current practice and recommendations will be implemented phase by phase to address immediate concerns. | A restricted tender has been sent out to invite professional consultants to provide such service. All the interested consultants will be invited to present their proposal in early May 2018 and the Task Force will appoint the consultant in mid May 2018. The consultancy service should be completed within 6 to 9 months. It is expected the consultant will make recommendations on psychological well being issues including but not limited to recruitment, training, performance management as well as developing tools and training programs that fit our needs. | <p>The consultancy team from the psychology department of a local university was appointed on 31 May 2018. In June 2018, the team has kicked off its review of the current practice in relation to the provision of emotional support through visiting depots, BCTS and Hotline Center, and meetings with Deputy Operations Director, depot staff, zone heads, driving instructors, recruitment team and employee relations team of HR department.</p> <p>In July 2018, the consultancy team has shared their initial observations with the Task Force. Both parties have worked out the general approach in delivering the project and the key activities in the coming months, namely to set up some focus groups to collect views directly from BCs and frontline staff on their needs in terms of psychological support and well being, to plan the training of driving instructors which was scheduled to start in September 2018, to further review the recruitment process so as to maximize its effectiveness, and to develop supporting activities for building a balanced and healthy work life.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|---|---|
| Measures to enhance bus safety | | |
| 14. Safety belts- KMB has already requested its suppliers to install safety belts on all seats as a standard feature for new buses ordered after 5 March 2018. As for buses that are currently in service, where certain routes so required, safety belts will be installed on the bus upper decks phase by phase. | <p><u>Installation of safety belts on new buses ordered after 5 March 2018</u></p> <p>Safety belts on all seats have been requested on new ordered buses after 5 March 2018.</p> <p><u>Installation of safety belts on all seats of existing buses</u></p> <p>Installation of safety belts on lower deck of existing buses is not feasible as this will involve major structural alternation. The feasibility of "installing safety belts on upper deck seats only" will be updated by our suppliers in due course.</p> | <p><u>Installation of safety belts on new buses ordered after 5 March 2018</u></p> <p>Completed.</p> <p><u>Installation of safety belts on all seats of existing buses</u></p> <p>Volvo and ADL advise that installation of safety belts on upper deck of certain existing buses is feasible. Volvo and ADL will provide technical details. Reduction in carrying capacity and bus down time for retrofit should be considered.</p> |
| 15. Electronic Stability Program – KMB should test and verify with bus suppliers the installation of ESP in EURO V and EURO VI to reduce the risk of skidding and rolling over. | <p>New ordered Euro VI buses will have ESP installed.</p> <p>Feasibility for retrofitting on existing buses will be updated in due course.</p> | <p>New Euro VI buses to be delivered in 2019 will have ESP installed.</p> <p>Volvo indicated that lead time of 18-24 months will be required for developing a retrofitting solution for the existing Euro V buses. ADL has yet to confirm the retrofitting solution in due course.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|--|---|
| 16. Geo-fencing—KMB should set speed limits of buses running through specific geo-fences. Upon satisfactory testing, they should consider using the technology in the fleet in particular routes with steep slopes or sharp bends. | Bus suppliers are studying how to implement this feature. Feasibility study is ongoing. | <p>A test drive was arranged with Volvo on 28 June 2018. The test drive showed that the speed limiter could change its threshold according to the defined 50 km/h and 70 km/h speed limit zones. Another test drive on a specific route will be arranged by August 2018.</p> <p>A test drive was arranged with Openmatics on 31 July 2018. The test drive showed that speed alert could be produced according to the defined 50 km/h and 70 km/h speed limit zones.</p> |
| 17. Tilt alarm – tilt alarm should be installed on the entire fleet to alert BCs when the bus has reached a specific inclination. | Bus suppliers have been urged to study and suggest the inclination threshold. Feasibility will be updated in due course. | All bus manufacturers do not recommend a tilt alarm as the signal may be either too early or too late. Should the threshold be set at a level that a warning is sent to the BC in time for him/her to react, that might cause a number of nuisance activations which may lead to the BC ignoring the warning. Should the threshold be set to a higher level, by the time the BC has the chance to react to the warning, there is a danger that it may be too late. It is also hard to predict what action the BC will have, such as harsh braking or over-steering. |
| 18. Speed alarm—an audible alert and a warning light should be activated to warn BC when the bus speed is beyond 70km/hr. | Completed. | Completed. |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|--|--|
| 19. Speed limitation—speed limitation system which will automatically activate the brakes to slow down the gearbox should be installed on new buses after a period of engineering and testing. | Both ADL and Volvo are studying how this system could be implemented on new bus. Feasibility will be updated in due course. | ADL Euro VI new buses will come with this feature. Volvo will have this feature available in July 2019 and their Euro VI new buses delivered before this time will have the feature retrofitted. |
| 20. Condensation - either hot air demisters or heated windscreens should be adopted for more effective and faster dehumidification. | Either hot air demisters or heated windscreen has been adopted as standard features on new ordered buses after March 2018. Existing buses will be retrofitted with hot air demisters or heated wind screens by phase within the next 12 months. | Completed. On schedule. |
| 21. Drowsiness of bus captain – KMB should test device to monitor drowsiness of BCs while they are driving and install such system in all buses if the result is satisfactory. | This drowsiness monitoring system will be installed into 4 buses for trial at the end of April 2018. | Initial trial in June 2018 showed that the drowsiness monitoring system could perform its functions. Trial run of the system in 4 buses has started since end of June 2018. The device is positioned to help BCs rather than to take disciplinary action against them. Recording function is not enabled. |

8.3.4 To enhance the speeding alert functions of Openmatics black box

Current system

Openmatics is the current supplier of black box on KMB / LWB buses. On speeding alert, the Openmatics black box compares the actual speed from Controller Area Network System onboard with the speed limit threshold, which is currently set at 70 kph.

1. Real-time onboard speed alert at 70 kph.
2. The black box data are being uploaded to the KMB server from buses for processing and further merging with KMB systems. The processing time is currently 4 days.

Challenges

| Challenges | Suggested solutions |
|--|---|
| Unable to identify the speed limit on actual locations | <ul style="list-style-type: none"> • Live digital map with accurate speed limits from the Government |
| Lengthy data processing time for speeding offences | <ul style="list-style-type: none"> • Live digital map with accurate speed limits from the Government • Improve internal data processing |

Works undertaken

A number of initiatives have being carried out to improve the above.

Openmatics has manually defined 50 kph and 70 kph zonings (please refer to Annex). KMB had started a conceptual trial on 31 July 2018 by comparing the above speed limits with the actual speed. Such trial is to verify whether the real-time onboard speed alert would notify the bus captains upon the actual speed of the trial bus exceeds the speed limit of the road. The result of the initial trial is so far positive. Further testing will be carried out. We are prepared to introduce the Government's digital map into the Openmatics black box, which will take three to four months. However, the Government's digital map does not contain live information, and can only be updated every 6 months.

In order to shorten the backend 4 day processing, KMB will adopt the blackbox as source to eliminate the duplicated information within KMB systems.

In parallel, we are also working with bus manufacturers to explore the feasibility of geo-fencing. With the new technology, the black box has potential to assist the control of the buses when certain parameters are met (i.e. speed limiter includes cutting off fuel supply or braking).

Timeline

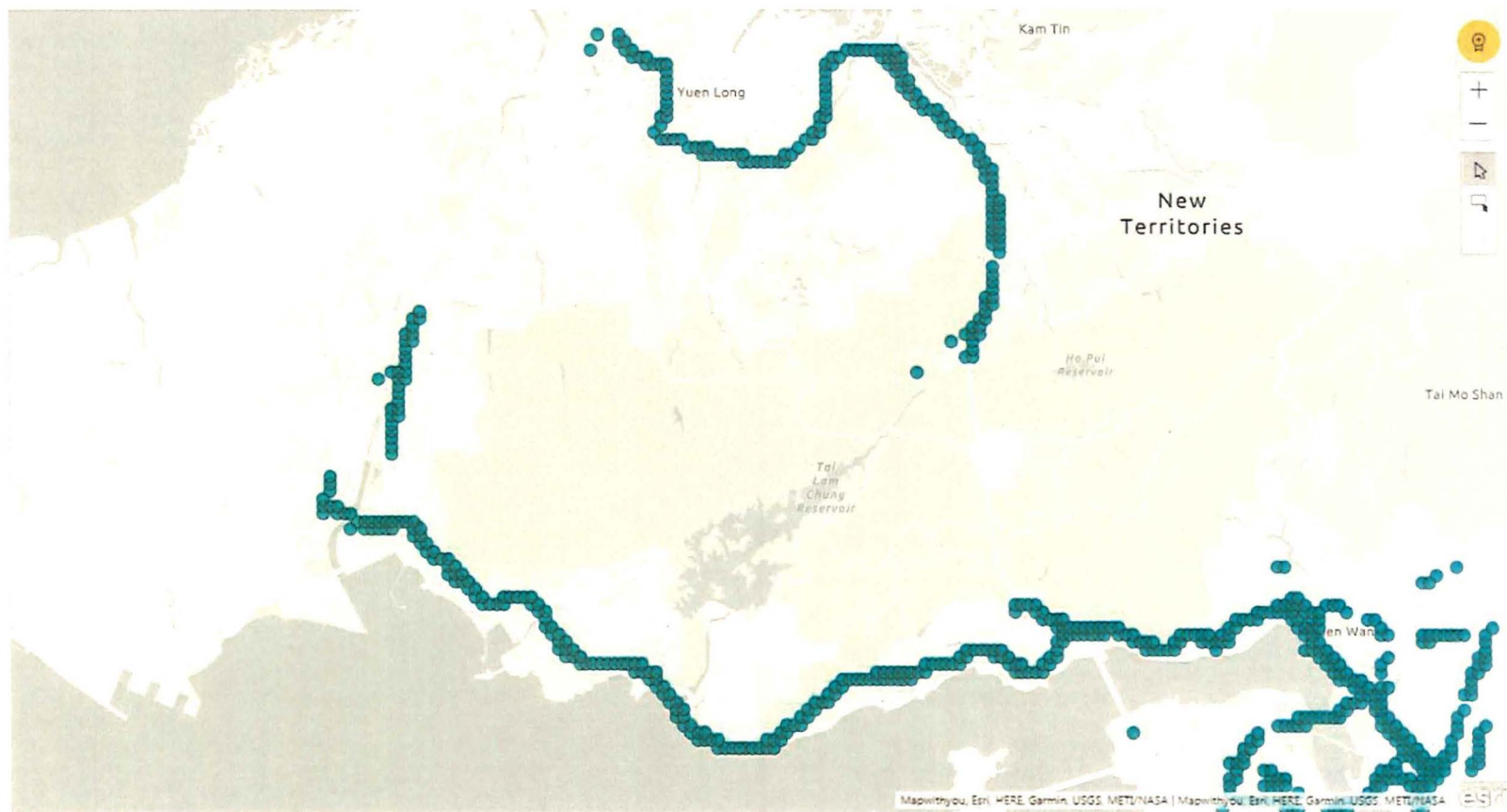
| | Sep-18 | Oct-18 | Nov-18 | Dec-18 | Jan-19 | Feb-19 | Mar-19 | Apr-19 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Real-time alert | | | | | | | | |
| Incorporate speed limit into black box by Openmatics | | | | | | | | |
| Validate the speed limit accuracy | | | | | | | | |
| Carry out internal trial | | | | | | | | |
| Consultation with frontline staff | | | | | | | | |
| Implementation to full fleet | | | | | | | | |
| Data processing | | | | | | | | |
| Integration of internal systems | | | | | | | | |
| Geo-fencing (fuel cutting) | | | | | | | | |
| Discussion with bus manufacturers | | | | | | | | |
| Development by bus manufacturers | | | | | | | | |
| Carry out internal trial | | | | | | | | |
| Consultation with frontline staff | | | | | | | | |
| Implementation to full fleet | | | | | | | | |

Target

| Current | Future |
|---|---|
| Activation of speed alert when the speed exceeds 70 kph | Activation of speed alert when the speed exceeds the actual speed limit |
| Activation of fuel cutting when the speed exceeds 70 kph | Activation of geo-fencing (including fuel cutting, gear lowering and braking) when the speed exceeds the actual speed limit |
| Processing time of 4 days in the back-end for speeding offences | Processing time can be shorten further in the back-end for speeding offences |

Annex: Speed zones defined for the trial on 31 July 2018

- Green dots: speed limit of 70 kph
- Other areas: speed limit of 50 kph



8.4 Proposed Target Accident Rate

8.4.1. Accident Rate in this context is defined as the average number of bus accidents involving personal injuries or deaths per million vehicle/km operated in the reporting year. This definition used is in line with the previous practice and different franchised bus operators.

8.4.2. Accident Rates of KMB in the past 5 years are as follows.

| Year | 2013 | 2014 | 2015 | 2016 | 2017 |
|---------------|------|------|------|------|------|
| Accident Rate | 3.17 | 2.89 | 2.57 | 2.68 | 2.90 |

8.4.3 In setting the target accident rate for the period covered by this Forward Planning Programme, consideration should be given to (i) the historical accident rate of KMB, (ii) the improvement measures formulated and its expected benefits.

8.4.4 Accident rate of a franchised bus operator is highly correlated to the network the operator served. Accident rates of different franchisees vary by the network they served. Both KMB and LWB are managed under the same management system, their accident rate vary due mainly to different networks they served. Likewise, other franchisees A, B and C are managed by the same management, their accident rate vary too.

| | Major coverage | Period | Accident Rate |
|-------------------|-----------------------|-----------|---------------|
| KMB | Kowloon, NT | 2017 | 2.90 |
| LWB | Tung Chung, NT | 2017 | 1.21 |
| Other franchise A | HK Island | 2016/2017 | 6.05* |
| Other franchise B | HK Island | 2016/2017 | 4.94* |
| Other franchise C | Tung Chung, HK Island | 2016/2017 | 1.55* |
| Other franchise D | Lantau Island | 2016/2017 | 1.92 |

* provisional figure

8.4.5 The bus network served by KMB has changed over time. Every year, there are addition of new routes, adjustment of service frequency of certain routes and cancellation of routes. More reference value will have for the figure in recent years. In the past 3 years (i.e. 2015, 2016 and 2017), the lowest accident rate is 2.57 in 2015. The target accident rate going to set should be lower than this level.

8.4.6 A number of initiatives for improvement of bus safety are taken in 2018/19. Details see section 8.3. It is anticipated that these measures, after implementation, will improve the accident rate over time. KMB set the target rate for the period covered by this Forward Planning Programme as 2.10, representing an improvement from 2017.

8.5 Safety Suggestions to Transport Department

8.5.1. An effective way to reduce accidents is to eliminate hazards at source. Apart from enhancing training and monitoring for bus captains, improving duty rostering and scheduling, promoting safety to passengers and upgrading bus safety features, KMB has provided safety suggestions to the Transport Department with the aim of eliminating or minimising hazards.

8.5.2. KMB has been actively in raising ideas to eliminate or minimise road hazards. The safety suggestions include provision of proper road markings/signage, re-arrangement of bus stops, strengthening of enforcement of illegal parking and jaywalking, extension of prohibited zones, correction of misleading road markings/signage, provision/removal of guard railings, modification of bus termini, and provision of lighting.

Table 8. 24 Safety Suggestions to Transport Department

| | 2017 | 2018 1H |
|--|------|---------|
| No. of safety suggestion letters first issued (reminders excluded) | 225 | 189 |

8.5.3. KMB has followed up with the Transport Department on the reply regularly.

8.6 Complementary Policies and Measures

Rest environment

8.6.1. KMB have been upgrading the working environment for their frontline staff, for example, by adding staff rest kiosks with air-conditioners at bus termini, as part of their bid to enhance driving safety. The setting up of rest kiosks cannot be timely done without the support and collaboration of the Government. We are working together with the TD to take the lead in coordinating the authorities involved to speed up the process.

Database for conviction record of bus captains

8.6.2. KMB plans to strengthen the checking of traffic conviction record on existing bus captains. Currently the existing database of TD for checking bus captain's traffic conviction record only applies to new recruitments. If the scope can extend to in service bus captains, it can facilitate the work. KMB views it is better to simplify the procedure by establishing a central database of the conviction records of drivers to facilitate timely safety assessment of drivers. We will discuss this further with TD.

Setting up Bus-only Lanes

8.6.3. Bus safety will be enhanced by an effectively implemented bus priority policy, especially the setting up of bus-only lanes. Unlike other road-based public transport modes, franchised buses operate in a volatile road environment with standees on board, and they are prone to injury even under minimal impact. In view of the vulnerability of passengers on franchised buses, setting up more bus-only lanes would significantly reduce competition for space on the road, which in turn will enhance safety for bus passengers. The setting up of more bus-only lanes is also part of the recommendation stated in the Public Transport Strategy Study (PTSS) published in June 2017.

8.6.4. As some cyclists use the roads along with other vehicles, cyclists may be exposed to danger when motor vehicles overtake them. Since cyclists are permitted to use bus lanes unless there are signs banning them, setting up more bus-only lanes would provide a safer cycling and driving environment.

Illegal parking

8.6.5. Illegal parking at bus stops is a major cause of improper stopping of buses, by which road users' safety will be jeopardised as passengers have to board and alight on the road instead of at the bus stop. Moreover, due to illegal on-street parking, the incidence of forced lane changes increases. Buses and other vehicles overtaking illegally parked vehicles pose a safety concern for boarding and alighting passengers, as well as other road users.

8.6.6. KMB have appealed to the Transport Department and other relevant authorities in respect of this issue. We hope effective measures will be put in place to tackle the passenger safety problem stemming from illegal parking. On the other hand, KMB is working close with the Police to facilitate the enforcement on this matter.

Bus terminus design

8.6.7. The majority of bus termini in Hong Kong adopt the "multiple boarding islands" design, a bus terminus design in use since the 1970s. The design potentially induces crossing conflict, as passengers have to use the same lanes as buses. KMB will also offer the view on the design of new bus termini in future.

Government support for safety technology

8.6.8. Safety technology needs considerable amount of investment. Given that safety is an industry concern, if the Government should consider expanding its sponsorship/subsidy schemes to fund part of research and development costs in respect of various safety-related and traffic management technologies and make them available to all franchised bus operators, it will help accelerate the pace of development.

Enforcement of Public Bus Services Regulations (Cap. 230A)

8.6.9. Safe driving is vital to the interests not just of bus passengers, but also of all other road users. Bus captains should be free from disruptions or unnecessary distractions of any kind. In recent years, there have been many cases of KMB bus captains being disturbed or assaulted in the course of conducting their driving duty. However, we note that offenders have been charged only with common assault, while another criminal charge stipulated in "Public Bus Services Regulations (Cap. 230A)" ("the Regulations") is rarely brought.

8.6.10. We continue discussing with relevant Government Departments to consider bringing additional charges as per the Regulations, apart from the common assault charge, to safeguard public safety on buses.

Other road user education

8.6.11. Promoting driving courtesy in respect of public transport vehicles is essential to road safety, as many bus related accidents are caused by improper driving attitude, inter alia, the failure to give way to buses. As stated above, passengers on buses are more vulnerable to traffic accidents, so the Government should proactively educate drivers to give way to buses.

8.6.12. KMB has looked into overseas experiences and will share our findings with TD. The Government of South Australia stipulates that drivers must give way to a bus if the bus is indicating that it intends to move away from the kerb. (The Driver's Handbook: <http://mylicence.sa.gov.au/road-rules/the-drivers-handbook/giving-way>) The Hong Kong Government may draw on this precedent to amend the Road Users' Code to instruct drivers to give way to buses. In fact, the Transport and Housing Bureau began updating the Road Users' Code in 2018, to include advice for cyclists, the elderly and the disabled on the safe use of roads and related facilities. KMB looks forward to seeing a further enhancement in respect of this suggestion soon.

Enhancement of public education

8.6.13. With regard to the growing number of cases of verbal and physical harassment of frontline staff, as a responsible public bus operator, KMB has put up notices inside bus compartments informing people on board that "It is an offence to talk to the bus captain while the vehicle is in motion" and "Disturbing a bus captain is a criminal offence". Comprehensive training and improvement courses are also regularly provided to KMB bus captains to ensure the continued provision of safe and comfortable bus journeys to the public. The Government may also consider enhancing public education by introducing Announcements in the Public Interest (API) in relation to the etiquette of using bus services.

8.6.14. Transport Department is undergoing a Courtesy Campaign for Public Transport which will launch in November 2018. The campaign aims at raising public awareness and promotes courteous behavior in public transport. KMB has participated actively in this Campaign

KMB will discuss with Transport Department of the initiatives mentioned in paragraphs 8.6.1 - 8.6.14.

Defensive driving

8.6.15. In view of a large portion of traffic accidents recorded in 2017 is bus captain not blameworthy, the awareness of other road user and driving environment will be important to minimise the chance of traffic accidents. KMB will further emphasis defensive driving in the bus captain training programme.

8.6.16. Details of training provided to new and serving bus captains are given in Annex 8.1.

Annex 8.1**A. Regular Training for New Bus Captains**

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|----------------------|---|--|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for Transport Department class 17 licence tests and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident blackspot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus type familiarisation and route training (night drive included).</p> | <p>18 days full time (68 hours on road driving practice by each trainee and 17 hours classroom training plus 6.5 hours online training of self-study mode)</p> | Before posting to duty | <p>2 routes</p> <p>3-4 bus types</p> |

B. Regular Training for Serving Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|----------------------|---|-----------------|---|---|
| 1. | Refresher Training | This training covers: <ul style="list-style-type: none"> ✧ strengthen the bus manoeuvring skills and defensive driving technique ✧ bus fire evacuation revision training ✧ customer service improvement training ✧ stress management training ✧ training on bus ramp operating | 0.5 day | Once every three years for all Bus captains | N/A |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 full day | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | N/A The bus type that the in-service BCs usually use |
| 3. | Route Training | Familiarise the route on-the-wheel under the supervision of Driving Instructor | 1 full day | Before an in-service BCs to be posted to a new route | 1 mother route and 1 sub-route (if any) |
| 4. | Bus Type Training | Familiarise a new bus type on-the-wheel under the supervision of Driving Instructor | 1 full day | Before driving a new bus type | 1 bus type 1 bus route |

- Training protocols are subject to ongoing review, albeit that the aim will be to continue to do all that is reasonably practicable to ensure the safety and comfort of passengers, staff and other road users at all times

8. LWB - BUS SAFETY

8.1 Introduction

8.1.1 LWB is committed to providing safe, reliable and quality bus services in Hong Kong. Safety is an absolute pre-requisite in everything we do. We accord top priority to safety in our daily agenda to meet or exceed customers' expectations.

8.1.2 This chapter starts with an analysis of the types/causes of accidents for the past few years and the relationship of accident rates with respect to different factors, e.g. bus route, bus model, bus type, vehicle age, etc.

8.1.3 This chapter further discusses the various measures that have been or are being undertaken to enhance safety.

8.2 Analysis of Bus Accidents in accordance to the requirement stated by the Transport Department

Table 8.0 Overview of Analysis performed

Part I – Analysis of Traffic Accident

| | |
|-------|---|
| 8.2.1 | Trend of Accident Rates |
| 8.2.2 | Accidents by Nature |
| 8.2.3 | Accidents by Cause |
| 8.2.4 | Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty |
| 8.2.5 | Casualties |
| 8.2.6 | Accident Collision and Non-collision |

Part II - Analysis on Traffic Accident Related to Non-driver Factors

| | |
|--------|-----------------------------------|
| 8.2.7 | Accident by Location |
| 8.2.8 | Accident by Bus Routes |
| 8.2.9 | Accident by District |
| 8.2.10 | Accident by Bus Type |
| | Bus Model |
| | Single or Double Deck Buses |
| | Bus Length |
| 8.2.11 | Accidents by Vehicle Age |
| 8.2.12 | Accidents by Stairway Type of Bus |

Part I – Analysis of traffic accidents

8.2.1 Trend of Accident Rates

8.2.1.1 Number of Traffic Accidents involving LWB from 2015 to 2017 are shown in Table 8.1.

Table 8.1a
The number of injury/death on traffic accidents involving from 2015-2017

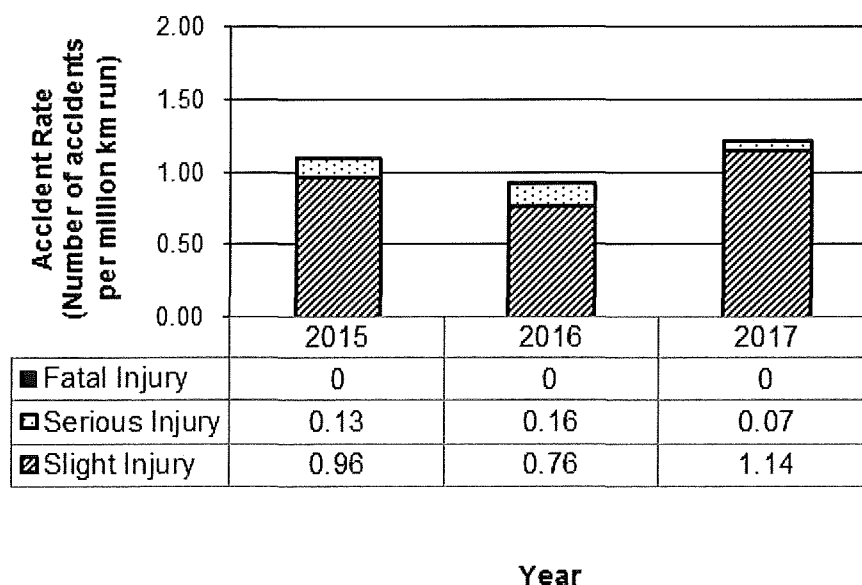
| | 2015 | 2016 | 2017 |
|--------|------|------|------|
| Injury | 47 | 85 | 86 |
| Death | - | - | - |
| Total | 47 | 85 | 86 |

Table 8.1b Number of Traffic Accidents involving LWB

| | 2015 | 2016 | 2017 |
|---|------|------|------|
| Number of Traffic Accidents involving LWB | 34 | 34 | 52 |

8.2.1.2 Accident rates from 2015 to 2017 are shown in Figure 8.1.

Figure 8.1 LWB - Number of accidents involving personal injuries and deaths (per million km run)



8.2.1.3 Table 8.2 showed the Contributory Factors of Traffic Accidents.

Table 8.2 Contributory Factors of Traffic Accidents

| Contributory Factors | 2015 | | 2016 | | 2017 | | |
|--------------------------------------|-----------|-------------|-----------|-------------|-----------|-------------|---|
| | count | % | count | % | count | % | |
| Bus captains blameworthy factors | 8 | 24% | 15 | 44% | 22 | 42% | Further Analysis Table 8.3a, 8.3b, 8.4, 8.8, 8.10 |
| Bus captains not blameworthy factors | 26 | 76% | 19 | 56% | 30 | 58% | |
| Total | 34 | 100% | 34 | 100% | 52 | 100% | |

8.2.1.4 There was no accidents related to mechanical factor in the reporting period.

8.2.1.5 The training of Bus Captain should further emphasis on defensive training to avoid accidents caused by improper driving behaviour of drivers of other vehicle, and misbehaviour of other road users/ passengers.

Accident Rate by Years of Service

8.2.1.6. The results of an analysis on accident rate by experience in terms of years of service in the Company are shown in the below table:

| Bus Captain Service Period | Accident Rate* | |
|----------------------------|----------------|------|
| | 2016 | 2017 |
| 0 - < 1 year | 0.16 | 0.11 |
| 1 - < 2 year | 0.04 | 0.09 |
| 2 - < 3 year | 0.03 | 0.05 |
| 3 - < 4 year | 0.03 | 0.11 |
| 4 - < 5 year | 0.00 | 0.08 |
| 5 - < 6 year | 0.14 | 0.12 |
| 6 - < 7 year | 0.00 | 0.16 |
| 7 - < 8 year | 0.09 | 0.18 |
| 8 - < 9 year | 0.00 | 0.20 |
| 9 - < 10 year | 0.00 | 0.07 |
| 10 - < 15 year | 0.11 | 0.00 |
| 15 - < 20 year | 0.03 | 0.08 |
| 20 year or above | 0.03 | 0.14 |

*The Accident Rate is calculated by:

$$\frac{\text{Count of bus captain involved in accident in the service period}}{\text{Total number of bus captain in the service period}}$$

8.2.1.7. The overall accident rate decrease when the bus captains accumulate experience of service.

8.2.1.8. Bus Captains with service experience between 0-1 year, the situation recorded improvement with accident rate noted 0.16 in 2016 and 0.11 in 2017. While for bus captains with service experience in 1-5 years, the situation recorded deteriorated.

8.2.1.9. LWB revamped the basic training programme. Apart from basic training including classroom lectures and on road training, buddy drivers will be assigned to new bus captains. And the training program is revamped to 'standard driven' from 'day-driven'. All route training has been converted to training on the wheel under the supervision of driving instructor.

8.2.1.10. Service monitoring will be more focus on Bus Captains in relatively short service period. On board checking will be conducted within half year from the first day of service for new bus captains.

8.2.1.11. For other bus captains, refresher Training will be provided once every three years for all Bus captains.

8.2.1.12. For bus captains who are found to have driving irregularities or away from driving duties for a period of time. Remedial Training will be provided for bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas.

8.2.2 Accidents by Nature

8.2.2.1 The results of an analysis of accident nature are shown in Table 8.3 below. The results are expressed in terms of absolute count and percentage of accidents during years 2015-2017.

Table 8.3a Accident by nature in absolute count & percentage allocation, and the number of injury and death in 2015, 2016

| Accident Nature | 2015 | | | | | | 2016 | | | | | |
|---|-----------------------------|-------------|------------------|-----------------|----------------------|-------------|-----------------------------|-------------|------------------|-----------------|----------------------|-------------|
| | Number of accident | % | Number of injury | Number of death | Total injury / death | % | Number of accident | % | Number of injury | Number of death | Total injury / death | % |
| Non-Collision | | | | | | | | | | | | |
| Loss Of Balance | 12 | 35% | 13 | - | 13 | 28% | 9 | 26% | 15 | - | 15 | 18% |
| Other Non-collision nature | | | | | | | | | | | | |
| Injury To Alighting/Boarding Passenger | 0 | 0% | 0 | - | 0 | 0% | 0 | 0% | 0 | - | 0 | 0% |
| Injury To Passenger Inside Bus | 1 | 3% | 1 | - | 1 | 2% | 1 | 3% | 1 | - | 1 | 1% |
| Non-collision Sub-total | 13 | 38% | 14 | - | 14 | 30% | 10 | 29% | 16 | - | 16 | 19% |
| Collision | | | | | | | | | | | | |
| Head On/Tail Collision | 8 | 24% | 16 | - | 16 | 34% | 7 | 21% | 7 | - | 7 | 8% |
| Collision With Third Party Vehicle (changing lane) | 5 | 15% | 6 | - | 6 | 13% | 5 | 15% | 6 | - | 6 | 7% |
| Junction Collision | 4 | 12% | 5 | - | 5 | 11% | 3 | 9% | 6 | - | 6 | 7% |
| Glancing Collision | 2 | 6% | 4 | - | 4 | 9% | 1 | 3% | 0 | - | 0 | 0% |
| Hit Stationary Object/Vehicle/Animal | 0 | 0% | 0 | - | 0 | 0% | 5 | 15% | 47 | - | 47 | 55% |
| Injury To Pedestrian | 2 | 6% | 2 | - | 2 | 4% | 3 | 9% | 3 | - | 3 | 4% |
| Collision With Other Vehicle (rolling back/forward/reversing) | 0 | 0% | 0 | - | 0 | 0% | 0 | 0% | 0 | - | 0 | 0% |
| Hit Stationary object/vehicle/animal | 0 | 0% | 0 | - | 0 | 0% | 0 | 0% | 0 | - | 0 | 0% |
| Entering Roundabout Collision | 0 | 0% | 0 | - | 0 | 0% | 0 | 0% | 0 | - | 0 | 0% |
| Collision Sub-total | 21 | 62% | 33 | - | 33 | 70% | 24 | 71% | 69 | - | 69 | 81% |
| Grand Total | 34 | 100% | 47 | - | 47 | 100% | 34 | 100% | 85 | - | 85 | 100% |
| | Ref Table 8.2 | | | | | | Ref Table 8.2 | | | | | |
| | Note 8.3.2 | | | | | | Note 8.3.2 | | | | | |
| | Further Analysis Table 8.6b | | | | | | Further Analysis Table 8.6b | | | | | |

Table 8.3b Accident by nature in absolute count & percentage allocation, and the number of injury and death in 2017

| Accident Nature | 2017 | | | | | | Number of injury | Number of death | Total injury / death | % |
|---|------------------------------|--------------|--------------------------|--------------|--------------------|-------------|------------------|-----------------|----------------------|-------------|
| | Bus Captain not blame-worthy | % (of total) | Bus Captain blame-worthy | % (of total) | Number of accident | % | | | | |
| Non-Collision | | | | | | | | | | |
| Loss Of Balance | 12 | 23% | 1 | 2% | 13 | 25% | 14 | - | 14 | 16% |
| Other Non-collision nature | | | | | | | | | | |
| Injury To Alighting/Boarding Passenger | 2 | 4% | 0 | 0% | 2 | 4% | 2 | - | 2 | 2% |
| Injury To Passenger Inside Bus | 2 | 4% | 0 | 0% | 2 | 4% | 2 | - | 2 | 2% |
| Non-collision Sub-total | 16 | 31% | 1 | 2% | 17 | 33% | 18 | - | 18 | 21% |
| Further Analysis Table 8.5 | | | | | | | | | | |
| Collision | | | | | | | | | | |
| Head On/Tail Collision | 3 | 6% | 13 | 25% | 16 | 31% | 24 | - | 24 | 28% |
| Collision With Third Party Vehicle (changing lane) | 3 | 6% | 2 | 4% | 5 | 10% | 9 | - | 9 | 10% |
| Junction Collision | 3 | 6% | 1 | 2% | 4 | 8% | 4 | - | 4 | 5% |
| Glancing Collision | 2 | 4% | 1 | 2% | 3 | 6% | 6 | - | 6 | 7% |
| Hit Stationary Object/Vehicle/Animal | 1 | 2% | 2 | 4% | 3 | 6% | 21 | - | 21 | 24% |
| Injury To Pedestrian | 1 | 2% | 1 | 2% | 2 | 4% | 2 | - | 2 | 2% |
| Collision With Other Vehicle (rolling back/forward/reversing) | 1 | 2% | 0 | 0% | 1 | 2% | 1 | - | 1 | 1% |
| Entering Roundabout Collision | 0 | 0% | 1 | 2% | 1 | 2% | 1 | - | 1 | 1% |
| Collision Sub-total | 14 | 27% | 21 | 40% | 35 | 67% | 68 | - | 68 | 79% |
| Grand Total | 30 | 58% | 22 | 42% | 52 | 100% | 86 | - | 86 | 100% |

Note 8.3.2
Ref Table 8.2
Further analysis Table 8.6b

Note 8.3.2
Further analysis Table 8.6b

Note 8.3.1 Further Analysis on the number of non-collision Franchised Bus Accidents involving Passenger Casualty in 2017 was conducted. Total 17 (13 in nature of loss of balance, 2 in nature of injury during alighting/boarding, 2 in nature of injury inside buses) accidents noted. Please refer to Table 8.5 in section 8.2.4.

Note 8.3.2 Refer to Table 8.1a, 8.1b

Note 8.3.3 The breakdown of bus captain blameworthy and bus captain not blameworthy in 2015 and 2016 is excluded as the value for reference is low.

8.2.2.2 In 2017, non-collision accidents contributed 17 (33%) out of 52. Among it 13 cases were Passengers Loss of Balance (LOB). 12 out of 13 LOB cases were Bus Captain not blameworthy. It is suggested more passenger education is needed. On the other hand, 1 out of 13 LOB cases were Bus Captain blameworthy. The training of Bus Captain should cover more on avoiding harsh braking.

8.2.2.3 Table 8.3c shows the cause of the LOB cases from 2015-2017.

Table 8.3c Cause of Loss o Balance cases in 2015-2017

| | 2015 | | | | 2016 | | | |
|---|--------------------|-------------|--|-------------|--------------------|-------------|--|-------------|
| | Accident Count | | Casualties Count | | Accident Count | | Casualties Count | |
| | Number of accident | % | Number of casualties (all type) Note 8.3.4 | % | Number of accident | % | Number of casualties (all type) Note 8.3.4 | % |
| Accelerating - pull out from bus stop | 2 | 17% | 2 | 15% | 2 | 22% | 2 | 13% |
| Accelerating - start in traffic | 1 | 8% | 1 | 8% | | 0% | | 0% |
| Accelerating sub-total | 3 | 25% | 3 | 23% | 2 | 22% | 2 | 13% |
| Bus braking in traffic | 8 | 67% | 9 | 69% | 5 | 56% | 10 | 67% |
| Bus braking for stopping for passengers when pulling leaving bus stop | 0 | 0% | 0 | 0% | 1 | 11% | 1 | 7% |
| Braking sub-total | 8 | 67% | 9 | 69% | 6 | 67% | 11 | 73% |
| Bus Moving in traffic | 1 | 8% | 1 | 8% | 1 | 11% | 2 | 13% |
| Total Loss of Balance | 12 | 100% | 13 | 100% | 9 | 100% | 15 | 100% |

| | 2017 | | | | | | | |
|---|------------------------------|--------------------------|--------------------|-------------|------------------------------|--------------------------|--|-------------|
| | Accident Count | | | | Casualties Count | | | |
| | Bus Captain not blame-worthy | Bus Captain blame-worthy | Number of accident | % | Bus Captain not blame-worthy | Bus Captain blame-worthy | Number of casualties (all type) Note 8.3.4 | % |
| Accelerating - pull out from bus stop | 1 | 0 | 1 | 8% | 1 | 0 | 1 | 7% |
| Accelerating - start in traffic | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0% |
| Accelerating sub-total | 1 | 0 | 1 | 8% | 1 | 0 | 1 | 7% |
| Bus braking in traffic | 7 | 1 | 8 | 62% | 8 | 1 | 9 | 64% |
| Bus braking for stopping for passengers when pulling leaving bus stop | 2 | 0 | 2 | 15% | 2 | 0 | 2 | 14% |
| Braking sub-total | 9 | 1 | 10 | 77% | 10 | 1 | 11 | 79% |
| Bus Moving in traffic | 2 | 0 | 2 | 15% | 2 | 0 | 2 | 14% |
| Total Loss of Balance | 12 | 1 | 13 | 100% | 13 | 1 | 14 | 100% |

Note 8.3.4 Note Number of casualties includes all injury persons count in an account includign passengers, bus captains, other road users,... etc.

8.2.2.4 1 (8%) out of 13 cases recorded in 2017 resulted from accelerating. This case occurred during the pull out of bus from bus stop. Better traffic management on enforcing the illegal occupy of bus stop by other vehicles, and education of other road users to give way to buses pulling out from bus stops will be able to improve the situation.

8.2.2.5 10 (77%) out of 13 cases recorded in 2017 resulted from braking. LWB continue to enforce defensive driving for bus captains. Apart from this, several safety measures are adopted, examples as below:

- Educate passengers to hold the handrails via on board stickers and through Bus Stop Announcement System;
- Installations of safety features on buses to prevent/lower the harm when passengers loss of balance, for example, installation of cushion pads at the step well panel of straight staircase buses; installation of additional inner vertical handpoles on buses with straight staircases.

8.2.2.6 Collision related accidents contributed 35 (67%) out of 52. Among it 14 cases were Bus Captain not blameworthy and 21 cases were Bus Captains blameworthy. The training on bus captains should be enhanced. Remedial driving training will be arranged for bus captains who are involved in serious traffic accidents. Bus captains who are involved in repeated blameworthy traffic accidents are referred to the Bus Captain Training School to attend training. The training course includes defensive driving concepts, case studies, experience sharing and assessment

8.2.2.7 Bus speed will be monitored by using the black box system. Raw data of speeding, harsh braking and abrupt acceleration will be generated weekly. For speeding cases, the Company will remind respective bus captains. For harsh braking and abrupt acceleration, plain clothes driving instructors will be deployed to conduct on-board check within one week. Disciplinary actions will be taken against bus captains with poor driving performance.

8.2.3 Accidents by Cause

8.2.3.1 The results of an analysis of accident cause are shown in Table 8.4 below. The results are expressed in terms of contributing factors related to bus captains by absolute count & percentage allocation and percentage of accidents during years 2015-2017.

Table 8.4 Accident with Bus Captain blameworthy factors by absolute count & percentage allocation

| Bus Captain blameworthy factors | 2015 | | 2016 | | 2017 | |
|--|----------|-------------|-----------|-------------|-----------|-------------|
| | count | % | count | % | count | % |
| Non-Collision type accidents | | | | | | |
| Improper Braking | 0 | 0% | 1 | 7% | 1 | 5% |
| Insufficient Lookout | 0 | 0% | 1 | 7% | 0 | 0% |
| Non-Collision Sub-total | 0 | 0% | 2 | 13% | 1 | 5% |
| Collision type accidents | | | | | | |
| Failing To Keep Safe Distance From Front Veh | 4 | 50% | 2 | 13% | 10 | 45% |
| Insufficient Lookout | 1 | 13% | 2 | 13% | 6 | 27% |
| Disobeying Give Way Sign | 0 | 0% | 0 | 0% | 2 | 9% |
| Improper Changing Lane | 0 | 0% | 1 | 7% | 1 | 5% |
| Inappropriate Speed In Particular Condition | 0 | 0% | 1 | 7% | 1 | 5% |
| Speeding | 0 | 0% | 0 | 0% | 1 | 5% |
| Improper Steering | 0 | 0% | 3 | 20% | 0 | 0% |
| Improper Braking | 1 | 13% | 1 | 7% | 0 | 0% |
| Improper Judgement | 1 | 13% | 1 | 7% | 0 | 0% |
| Disobeying Traffic Light | 0 | 0% | 1 | 7% | 0 | 0% |
| Failing To Keep Proper Lane | 0 | 0% | 1 | 7% | 0 | 0% |
| Disobeying Stop Sign | 1 | 13% | 0 | 0% | 0 | 0% |
| Collision Sub-total | 8 | 100% | 13 | 87% | 21 | 95% |
| Total | 8 | 100% | 15 | 100% | 22 | 100% |

Ref. to Table 8.2

8.2.3.2 Three key factors related to bus captains in 2017 were:

- Failing to keep safe distance from front vehicle (45%, all from collision);
- Insufficient lookout (27%, all from collision); and
- Disobeying give way sign (9%, all from collision).

8.2.3.3 Bus Captain Training School will emphasis further in all bus captain training course, regardless of type, in respect to the factors shown on Table 8.4. Training & Quality Assurance Department will issue internal notice quarterly to remind bus captains on the major causes of accident that related to bus captains' driving behaviour.

8.2.4 Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty

8.2.4.1 Table 8.5 below shows the Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty in 2017.

Table 8.5 Number of Non-collision Accidents Involving Passenger Casualty in 2017

| | Count of accidents where bus captains not blame-worthy | No. of passenger casualties | Count of accidents where bus captains blame-worthy | No. of passenger casualties | Total count of accidents | No. of passenger casualties | |
|--|--|-----------------------------|--|-----------------------------|--------------------------|-----------------------------|--|
| Accidents involving passenger losing balance on stairway | 4 | 4 | 0 | 0 | 4 | 4 | Further analysis Section 8.2.12 Table 8.23 |
| Accidents involving passenger losing balance elsewhere except on stairway | 8 | 8 | 1 | 1 | 9 | 9 | |
| Sub-total related to Loss Of Balance | 12 | 12 | 1 | 1 | 13 | 13 | Note 8.5.1 |
| Accidents involving passenger injured by door | 2 | 2 | 0 | 0 | 2 | 2 | |
| Accidents involving passenger falling down or hitting bus fixture when the bus not in motion | 2 | 2 | 0 | 0 | 2 | 2 | Ref. to Table 8.3b Further analysis Table 8.6 Note 8.5.2 |
| Number of Non-collision Franchised Bus Accidents involving passenger casualty in 2017 | 16 (94% of 17) | 16 | 1 (6% of 17) | 1 | 17 | 17 | |
| Percentage over all accidents (Total 52) | 31% | - | 2% | - | 33% | - | |

Note 8.5.1

13 represents no. of PASSENGER casualties on LOB cases in 2017. The number of casualties of ALL person type for LOB is 14, see breakdown 1:

Note 8.5.2

17 represents no. of PASSENGER casualties on all non-collision accidents in 2017. The number of casualties of ALL person type is 18, see breakdown 2:

Note 8.5.1 Breakdown 1

| Casualties | Count |
|--------------|-----------|
| Passenger | 13 |
| Bus Captain | 1 |
| Pedestrian | 0 |
| Other driver | 0 |
| | 14 |

<Table 8.3b>

Note 8.5.2 Breakdown 2

| Casualties | Count |
|-------------------------|-----------|
| Passenger | 17 |
| Bus Captain | 1 |
| Pedestrian | 0 |
| Other vehicle driver | 0 |
| Other vehicle passenger | 0 |
| | 18 |

<Table 8.3b>

8.2.4.2 Among the 17 non-collision accidents involving passenger casualty recorded in 2017, 16 (94%) were contributed by factors not related to Bus Captains.

8.2.4.3 Among these 16 accidents, 12 were accidents involving passenger losing balance of which 4 accidents incurred on stairway.

8.2.4.4 More passenger education on bus safety will help to arise the awareness of passengers and prevent accidents.

8.2.4.5 On Bus Captain trainings side, LWB produces its “Bus Captain Safe Driving Handbook” which is posted at staff website for all bus captains currently in its seventh edition (6 July 2018), the handbook includes driving regulations and points to note about safe driving, covering every aspect of a bus captain’s daily work. It is aimed at assisting bus captains in establishing a proper safe driving attitude and encouraging them to take all practical steps aimed at achieving safe driving.

8.2.4.6 Apart from the “Bus Captain Safe Driving Handbook”, the Bus Captain Training School provides intensive training for LWB bus captains including bus type training, route trainings and the driver instructor will remind bus captains on different safety measures. Regular internal notice on safe driving are also issued to alert bus captains.

8.2.5 Casualties

8.2.5.1 Table 8.6a shows the number of passenger casualties in non-collision accidents by casualty position. More than one casualty can be noted in one accident. Should have better cross reference, in previous Loss of Balance analysis, add further analysis of the location of accident will be shown on 8.2.5.

Table 8.6a Passenger Casualties in Non-collision Accidents by Casualty Position

| Casualty Position | Number of Passenger Casualties and Percentage Allocation | | | | | | | | | |
|---|--|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
| | count | % | count | % | count | % | count | % | count | % |
| Lower deck standing | 4 | 15% | 3 | 14% | 7 | 50% | 9 | 56% | 5 | 29% |
| Stairways | 8 | 30% | 3 | 14% | 2 | 14% | 3 | 19% | 4 | 24% |
| Entrance/exit door | 4 | 15% | 2 | 10% | 0 | 0% | 1 | 6% | 2 | 12% |
| Lower deck sitting | 2 | 7% | 6 | 29% | 3 | 21% | 0 | 0% | 2 | 12% |
| Lower deck moving | 5 | 19% | 1 | 5% | 1 | 7% | 0 | 0% | 2 | 12% |
| Upper deck seating | 1 | 4% | 3 | 14% | 0 | 0% | 1 | 6% | 1 | 6% |
| Record Unavailable | 3 | 11% | 3 | 14% | 1 | 7% | 2 | 13% | 1 | 6% |
| Total | 27 | 100% | 21 | 100% | 14 | 100% | 16 | 100% | 17 | 100% |
| Number of fleet size as at 30 June of the year | 167 | | 172 | | 183 | | 193 | | 243 | |

Note 8.6.1 The number recorded (4) for casualty position in Stairways includes all accidents and all these 4 (recorded in Table 8.5) were cause from Losing of Balance.

Note 8.6.2 Not all the casualty position can be recorded in the traffic accident. In some cases, casualty unable to provide this information.

Note 8.6.3 TD request analysis on the number of casualties with categories by with and without seatbelt is not available as it has not been recorded.

Note 8.6.4 The table only indicated PASSENGER casualties, other types of casualties were excluded.

8.2.5.2 Table 8.6b shows the number of casualties (all type) in collision accidents by casualty position. The ratio is around 7:3 for casualty position inside and outside bus, where casualties recorded outside bus are other road users including pedestrians, cyclists, other vehicle drivers/passengers...etc.

Table 8.6b Casualties in Collision Accidents by Casualty Position

| Casualty Position | No. of casualties & Percentage allocation | | | | | |
|-------------------|---|-------------|-----------|-------------|-----------|-------------|
| | 2015 | | 2016 | | 2017 | |
| | count | % | count | % | count | % |
| Inside Bus | 25 | 53% | 59 | 69% | 64 | 74% |
| Outside Bus | 22 | 47% | 26 | 31% | 22 | 26% |
| Total | 47 | 100% | 85 | 100% | 86 | 100% |

Ref. table 8.3a

Ref. table 8.3a

Ref. table 8.3b

8.2.5.3 2017 figures are similar to 2016. Passengers education should focus on the below:

- Reminding passengers to hold the handrail
- Avoid or be more mindful in use mobile devices while standing, leave the seats to get ready for alighting or change seats inside bus compartments when the buses were in motion.

8.2.5.4 Table 8.7 shows the passenger casualties in non-collision accidents per 1000 buses.

Table 8.7 Passenger Casualties in Non-collision Accidents (per 1000 buses)

| Casualty Position | Number of Passenger Casualties / 1000 buses | | | | |
|---------------------|---|------------|-----------|-----------|-----------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| Lower deck_standing | 24 | 17 | 38 | 47 | 21 |
| Stairways | 48 | 17 | 11 | 16 | 16 |
| Entrance/exit door | 24 | 12 | 0 | 5 | 8 |
| Lower deck_sitting | 12 | 35 | 16 | 0 | 8 |
| Lower deck_moving | 30 | 6 | 5 | 0 | 8 |
| Upper deck_seating | 6 | 17 | 0 | 5 | 4 |
| Record Unavailable | 18 | 17 | 5 | 10 | 4 |
| Total | 162 | 122 | 77 | 83 | 70 |

8.2.6 Accidents by Types – Collision and Non-collision

8.2.6.1 Table 8.8 shows the number accident by type of collision or non-collision with 2017 accidents figures further breakdown into accidents contributed from factors related or not related to bus captains.

Table 8.8 Accident Type (Collision or Non-Collision)

| Accident Type | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
|--|-------|------|-------|------|----------------|------|----------------|------|----------------|------|
| | count | % | count | % | count | % | count | % | count | % |
| Non-collision sub-total | 25 | 45% | 19 | 49% | 13 | 38% | 10 | 29% | 17 | 33% |
| | | | | | Ref Table 8.3a | | Ref Table 8.3a | | Ref Table 8.3b | |
| <u>Collision</u> | | | | | | | | | | |
| Vehicle-pedestrian | 2 | 4% | 5 | 13% | 2 | 6% | 3 | 9% | 2 | 4% |
| Vehicle-vehicle collision | 25 | 45% | 14 | 36% | 19 | 56% | 16 | 47% | 30 | 58% |
| Vehicle-object collision | 3 | 5% | 1 | 3% | 0 | 0% | 5 | 15% | 3 | 6% |
| Collision sub-total | 30 | 54% | 20 | 52% | 21 | 62% | 24 | 71% | 35 | 68% |
| | | | | | Ref Table 8.3a | | Ref Table 8.3a | | Ref Table 8.3b | |
| Grand Total | 55 | 100% | 39 | 100% | 34 | 100% | 34 | 100% | 52 | 100% |
| No. of fleet size as at 30 Jun of the year | 167 | | 172 | | 183 | | 193 | | 243 | |

8.2.6.2 In 2017, 17 (33%) out of 52 of the accidents were non-collision. Among the 17 non-collision accidents, 16 cases were bus captain non-labile and 1 case was bus captain liable.

8.2.6.3 LWB provided proper training to our bus captains, and we have included defensive driving awareness in 車長安全駕駛手冊.

8.2.6.4 Apart from this, 35 (67%) out of 52 accidents were collision accidents in 2017. Among it 30 were vehicle-vehicle collision in which 12 were bus captain non-labile.

8.2.6.5 Vehicle-vehicle collisions were observed to be the highest among different collision type accidents. LWB was aware of the traffic condition in the road network, and keep proposing measures to the Government to ensure the smoothness of bus operations. Typical examples included recommend the Government to set up more Bus Only Lanes. On the other hand, LWB used to launch complaints and urge the Government to resolve illegal parking problems. Accidents can be reduced with less other obstructions on the road.

8.2.6.6 Control of number of private cars can be one of the effective measures to reduce Vehicle-vehicle collision. With the Transport Advisory Committee's 2014 Report on Study of Road Traffic Congestion in Hong Kong warning that "Hong Kong's vehicle fleet size has been growing at an alarming rate". The Company views the Government should consider setting a limit on the number of private cars.

8.2.6.7 Driving attitude of other road users is one of the key in preventing accidents not liable to Bus Captains. Promoting driving courtesy in respect of public transport vehicles is essential to road safety, as many bus related accidents are caused by improper driving attitude. Passengers on buses are more vulnerable to traffic accidents, so the Government should proactively educate drivers to give way to buses.

8.2.6.8 Regarding vehicle-pedestrians and vehicle-object collisions, LWB keeps proposing improvements on bus stops, bus termini and other observed safety hazard to Transport Department. Timely process of the proposals is required to minimize the hazard. It is also important for the Government to enforce traffic regulation and education to public in order to increase the awareness of road safety.

8.2.6.9 Table 8.9 shows the number accident by type of collision or non-collision per every 1000 buses.

Table 8.9 Accident Type (Collision or Non-Collision per 1000 buses)

| Accident Type | No. of accidents/1000 buses | | | | |
|----------------------------------|------------------------------------|-------------|-------------|-------------|-------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| Non-collision | 150 | 110 | 71 | 52 | 70 |
| <u>Collision</u> | | | | | |
| Vehicle-pedestrian | 12 | 29 | 11 | 16 | 8 |
| Vehicle-vehicle collision | 150 | 81 | 104 | 83 | 123 |
| Vehicle-object collision | 18 | 6 | 0 | 26 | 12 |
| Total | 329 | 227 | 186 | 176 | 214 |

Part II - Analysis on Traffic Accident Related to Non-driver Factors

8.2.7 Accidents by Locations

8.2.7.1. Table 8.10 shows the number accident by with 2017 accidents figures further breakdown into accidents contributed from factors related or not related to bus captains.

Table 8.10 Accident Location (by count and percentage allocation)

| Accident Location | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
|---|------------|-------------|------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| | count | % | count | % | count | % | count | % | count | % |
| On the Road | | | | | | | | | | |
| Junction | 3 | 5% | 0 | 0% | 4 | 12% | 3 | 9% | 4 | 8% |
| Roundabout | 1 | 2% | 0 | 0% | 1 | 3% | 2 | 6% | 8 | 15% |
| Other than Junction and Roundabout | 41 | 75% | 27 | 69% | 26 | 76% | 20 | 59% | 26 | 50% |
| Total On The Road | 45 | 82% | 27 | 69% | 31 | 91% | 25 | 74% | 38 | 73% |
| Bus Stop and Terminus | | | | | | | | | | |
| Bus Stop | 10 | 18% | 9 | 23% | 3 | 9% | 6 | 18% | 11 | 21% |
| Bus Terminus | 0 | 0% | 3 | 8% | 0 | 0% | 3 | 9% | 3 | 6% |
| Total at Bus Stop/Terminus | 10 | 18% | 12 | 31% | 3 | 9% | 9 | 27% | 14 | 27% |
| Depot | | | | | | | | | | |
| Depot | | | | | | | | | | |
| Total in Depot | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| Grand Total | 55 | 100% | 39 | 100% | 34 | 100% | 34 | 100% | 52 | 100% |
| | | | | | Ref Table 8.2 | | Ref Table 8.2 | | Ref Table 8.2 | |
| No. of fleet size as at 30 Jun of the year | 167 | | 172 | | 183 | | 193 | | 243 | |

* The requested analysis on vehicle direction is not available as it has not been recorded separately. Please refer to Tables 8.1 and 8.2 where parts of the vehicle direction are shown.

8.2.7.2. In 2017, among the locations with specific identification, 38 (73%) out of 52 accidents were recorded to happen on the road outside bus stops, termini and depots. Total 26 (50%) cases were recorded to happen on road sections other than roundabout and junction and 13 out of these 26 cases were not liable to bus captain.

8.2.7.3. Transport Department encouraged the Company to submit proposals on improving bus safety, and committed will continue put effort to resolve the problems on illegal parking and loading/unloading activities at bus stops; traffic congestion; and traffic black spots. In fact, the Company used to regularly review potential safety hazard which threaten bus safety, and already submitted numerous concrete proposals to Transport Department to alert the problem identified and request for follow up.

8.2.7.4. The majority of bus termini in Hong Kong adopt the “multiple boarding islands” design, a bus terminus design in use since the 1970s. The design potentially induces crossing conflict, as passengers have to use the same lanes as buses. The design should be reviewed.

8.2.7.5. Illegal parking at bus stops is one of the cause of improper stopping of buses, by which road users’ safety will be jeopardised as passengers have to board and alight on the roadway instead of using the bus stop. The increased the chance of traffic

accidents. Buses and other vehicles overtaking illegally parked vehicles pose safety concerns for boarding and alighting passengers, as well as other road users.

8.2.7.6. Table 8.11 shows the number accident by location per 1000 buses with 2017 accidents figures further breakdown into accidents contributed from factors related or not related to bus captains.

Table 8.11 Accident Location (per 1000 buses)

| Accident Location | 2013 | 2014 | 2015 | 2016 | 2017 |
|------------------------------------|-------------|-------------|-------------|-------------|-------------|
| On the Road | | | | | |
| Junction | 18 | 0 | 22 | 16 | 16 |
| Roundabout | 6 | 0 | 5 | 10 | 33 |
| Other than Junction and Roundabout | 246 | 157 | 142 | 104 | 107 |
| Total On The Road | 270 | 157 | 169 | 130 | 156 |
| Bus Stop and Terminus | | | | | |
| Bus Stop | 60 | 52 | 16 | 31 | 45 |
| Bus Terminus | 0 | 17 | 0 | 16 | 12 |
| Total at Bus Stop/Terminus | 60 | 69 | 16 | 47 | 57 |
| Depot | | | | | |
| Depot | | | | | |
| Total in Depot | 0 | 0 | 0 | 0 | 0 |
| Grand Total | 329 | 227 | 186 | 176 | 214 |

8.2.8 Accidents by Routes

8.2.8.1 Table 8.12 shows the number of accident by Bus Routes between 2013-2017. Table 8.13 shows the number of accident by Bus Routes per million km run between 2013-2017.

Table 8.12 Accident by Bus Route

| Bus Route | 2013 | | | 2014 | | | 2015 | | | 2016 | | | 2017 | | |
|-----------|----------------------------|-----------------------------------|-------|----------------------------|-----------------------------------|-------|----------------------------|-----------------------------------|-------|----------------------------|-----------------------------------|-------|----------------------------|-----------------------------------|-------|
| | Bus Captain blameworthy | Bus Captain not blameworthy | Total | Bus Captain blameworthy | Bus Captain not blameworthy | Total | Bus Captain blameworthy | Bus Captain not blameworthy | Total | Bus Captain blameworthy | Bus Captain not blameworthy | Total | Bus Captain blameworthy | Bus Captain not blameworthy | Total |
| E41 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 3 | 3 | 4 | 7 | 4 | 6 | 10 |
| E33 | 0 | 2 | 2 | 2 | 3 | 5 | 2 | 4 | 6 | 2 | 5 | 7 | 3 | 6 | 9 |
| E34B | N/A | N/A | N/A | 0 | 0 | 0 | 1 | 2 | 3 | 2 | 0 | 2 | 1 | 4 | 5 |
| E34A | N/A | N/A | N/A | 0 | 0 | 0 | 1 | 4 | 5 | 1 | 0 | 1 | 3 | 1 | 4 |
| E42 | 3 | 5 | 8 | 1 | 3 | 4 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 3 |
| E32 | 1 | 3 | 4 | 1 | 4 | 5 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 |
| A32 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 1 | 0 | 1 | 1 | 2 | 3 |
| Total | 5 | 10 | 15 | 4 | 10 | 14 | 6 | 13 | 19 | 10 | 11 | 21 | 14 | 23 | 37 |

* Bus routes with no. of accidents more than or equal to 3 in 2017 are listed in this table.

Table 8.13 Accident by Bus Route (per million km run)

| Bus route | Journey distance | No. of accidents/ million km run | | | | |
|-----------|---------------------|----------------------------------|------|------|------|------|
| | | 2013 | 2014 | 2015 | 2016 | 2017 |
| E41 | 57.1 | 0.3 | 0.0 | 1.0 | 2.1 | 3.2 |
| E33 | 44.7 | 0.6 | 1.4 | 1.6 | 1.7 | 2.0 |
| E34B | 44.1 | N/A | 0.0 | 1.1 | 0.7 | 1.9 |
| E34A | 53.3 | N/A | 0.0 | 1.5 | 0.3 | 1.1 |
| E42 | 46.1 | 2.7 | 1.4 | 0.7 | 0.6 | 1.0 |
| E32 | 39.8 | 1.9 | 2.4 | 0.0 | 0.5 | 1.4 |
| A32 | 32.2 | N/A | N/A | N/A | 9.5 | 2.3 |

* Only Bus routes with no. of accidents more than or equal to 3 in 2017 are listed in this table.

8.2.8.2 Bus Routes E41, E33, E34B, E34A, E42, E32 and A32 had more than or equal to 3 accidents in 2017.

8.2.8.3 Route E41 noted the highest rate of number of accident per million km run in 2017. This is due to the long journey distance (55.8 km) of the route compare to the rest LWB routes. With the highest number of accident counts in 2017, the rate will be affected by the mileage the route operated.

8.2.8.4 Most of these routes are “E” routes with high number of departures per day in LWB network, the accidents on routes will not only be impacted by the mileage operated.

8.2.8.5 There is no direct correlation on accidents and bus routes.

8.2.8.6 LWB will also remind the bus captains operating these routes to take care in view of the number of accidents noted.

8.2.9 Accidents by District

8.2.9.1 Table 8.14 shows the number accident by districts between 2013-2017.

Table 8.14 Accidents by District (count and percentage allocation)

| District | Number of Accidents and Percentage Allocation | | | | | | | | | |
|------------------|---|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
| | count | % | count | % | count | % | count | % | count | % |
| Islands | 17 | 31% | 10 | 26% | 14 | 41% | 9 | 26% | 19 | 37% |
| Tsuen Wan | 14 | 25% | 7 | 18% | 5 | 15% | 6 | 18% | 7 | 13% |
| Yuen Long | 7 | 13% | 8 | 21% | 6 | 18% | 5 | 15% | 6 | 12% |
| Tuen Mun | 1 | 2% | 4 | 10% | 5 | 15% | 1 | 3% | 6 | 12% |
| Kwai Tsing | 5 | 9% | 3 | 8% | 1 | 3% | 5 | 15% | 5 | 10% |
| Tai Po | 1 | 2% | 0 | 0% | 0 | 0% | 3 | 9% | 4 | 8% |
| Shatin | 8 | 15% | 5 | 13% | 3 | 9% | 4 | 12% | 3 | 6% |
| North | 2 | 4% | 1 | 3% | 0 | 0% | 1 | 3% | 1 | 2% |
| Record Undefined | 0 | 0% | 1 | 3% | 0 | 0% | 0 | 0% | 1 | 2% |
| Total | 55 | 100% | 39 | 100% | 34 | 100% | 34 | 100% | 52 | 100% |

8.2.9.2 37% and 13% of accidents occurred in Islands and Tsuen Wan respectively in 2017. The percentage of accidents occurred in Yuen Long and Tuen Mun contributed 12% each in 2017. These four districts were the main catchment for LWB with more number of departures than other districts, and the correlation between number of accident is deemed to be reasonable.

8.2.9.3 With the recent development in North Lantau and the Airport, the change in traffic condition in the Islands Districts below is noted:

- a. High traffic flow induced by the additional road usage of the construction site vehicles; and
- b. Increase number of temporary road closure and diversion in North Lantau and the Airport, especially for the roadworks related to the project of Hong Kong-Zhuhai-Macao Bridge in the previous years.

8.2.9.4 The Company recommends the Government to proactively take measures to resolve the high traffic flow problem. We will discuss with the Government.

8.2.9.5 The analysis included only accident counts related to LWB with districts as requested by Transport Department. This analysis cannot reflect the full picture on the relationship between district and accident. The Company recommends the Government to have deeper investigation and analysis on the correlation by taking into account of other factors like accident rate on other transport modes, and derive concrete proposals to enhance road safety.

8.2.10 Accidents by Bus Type

8.2.10.1 Bus Type – Bus Model

8.2.10.1.1 Table 8.15 shows the number of accident per bus of the concerned bus model (between 2013-2017).

Table 8.15 Accidents by Bus Model (Per bus of concerned bus model)

| Bus Model | 2013 | | | 2014 | | | 2015 | | | 2016 | | | 2017 | | |
|--------------------------------|-------------------------------|------------|---------------------------------|-------------------------------|------------|---------------------------------|-------------------------------|------------|---------------------------------|-------------------------------|------------|---------------------------------|-------------------------------|------------|---------------------------------|
| | Acc. per bus of the bus model | Acc. count | Count by bus model in the fleet | Acc. per bus of the bus model | Acc. count | Count by bus model in the fleet | Acc. per bus of the bus model | Acc. count | Count by bus model in the fleet | Acc. per bus of the bus model | Acc. count | Count by bus model in the fleet | Acc. per bus of the bus model | Acc. count | Count by bus model in the fleet |
| Trident Enviro500 | 0.38 | 3 | 8 | 0.25 | 2 | 8 | 0.43 | 3 | 7 | 0.00 | 0 | 8 | 0.63 | 5 | 8 |
| VOLVO B9TL Enviro500 | 0.11 | 1 | 9 | 0.00 | 0 | 10 | 0.10 | 1 | 10 | 0.10 | 1 | 10 | 0.40 | 4 | 10 |
| Trident E500 Lux | N/A | N/A | N/A | N/A | N/A | N/A | 0.35 | 7 | 20 | 0.08 | 2 | 26 | 0.27 | 7 | 26 |
| Trident Enviro500 EuroV | 0.31 | 11 | 35 | 0.19 | 7 | 36 | 0.19 | 7 | 36 | 0.33 | 12 | 36 | 0.25 | 9 | 36 |
| Trident Enviro500 EuroIV | 0.41 | 13 | 32 | 0.13 | 4 | 32 | 0.16 | 5 | 32 | 0.13 | 4 | 32 | 0.25 | 8 | 32 |
| Trident E500 Turbo | N/A | N/A | N/A | 0.26 | 8 | 31 | 0.13 | 6 | 47 | 0.13 | 6 | 47 | 0.21 | 10 | 47 |
| Enviro 500 Turbo 12M Premium | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0.05 | 1 | 21 | 0.13 | 5 | 40 |
| Enviro 500 Turbo 12.8M Premium | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0.67 | 8 | 12 | 0.10 | 4 | 41 |
| DENNIS TRIDENT 12M | 0.33 | 27 | 83 | 0.33 | 18 | 55 | 0.16 | 5 | 31 | 0.00 | 0 | 1 | 0.00 | 0 | 1 |

* N/A: there was no bus of such bus model as at 30 Jun of the year.

8.2.10.1.2 Refer to Table 8.15, Trident Enviro500 and VOLVO B9TL Enviro500 recorded accident per bus of 0.63 and 0.40 respectively in 2017. The reason is there were only 8 (3.3% of the fleet) and 10 buses (4.1% of the fleet) of these 2 bus types respectively in 2017. And each of them recorded 5 and 4 accidents respectively. Therefore the resulting figure was impacted by the small population.

8.2.10.1.3 Trident E500 Lux, Trident Enviro500 EuroV, Trident Enviro500 EuroIV recorded accident rate per bus of 0.25 – 0.27. No significant reason on the mechanical side. The count of number of accident on the bus type and the accident per bus is being impacted by the fleet size of that bus model.

8.2.10.1.4 Table 8.16 shows the number accident per bus model (between 2013 - 2017). The bus model with more count of accidents in general in line with the number of that bus model in the fleet.

Table 8.16 Accidents by Bus Model (by count)

| Bus Model | 2013 | 2014 | 2015 | 2016 | 2017 |
|--------------------------------|-------------|-------------|-------------|-------------|-------------|
| Trident E500 Turbo | N/A | 8 | 6 | 6 | 10 |
| Trident Enviro500 EuroV | 11 | 7 | 7 | 12 | 9 |
| Trident Enviro500 EuroIV | 13 | 4 | 5 | 4 | 8 |
| Trident E500 Lux | N/A | N/A | 7 | 2 | 7 |
| Enviro 500 Turbo 12M Premium | N/A | N/A | N/A | 1 | 5 |
| Trident Enviro500 | 3 | 2 | 3 | 0 | 5 |
| Enviro 500 Turbo 12.8M Premium | N/A | N/A | N/A | 8 | 4 |
| VOLVO B9TL Enviro500 | 1 | 0 | 1 | 1 | 4 |
| DENNIS TRIDENT 12M | 27 | 18 | 5 | 0 | 0 |
| Total | 55 | 39 | 34 | 34 | 52 |

* N/A: there was no bus of such bus model as at 30 Jun of the year.

8.2.10.1.5 There is no direct correlation between accident rate and bus model.

8.2.10.2 Bus Type – Single or Double Deck Buses

8.2.10.2.1 There is no Single Deck buses in LWB's gazette fleet. Table 8.17 shows the number of accident per bus of Double Deck Buses, and the count of accident recorded between 2013-2017.

Table 8.17 Accidents by Bus Type

| Bus Type | 2013 | | | 2014 | | | 2015 | | | 2016 | | | 2017 | | |
|-----------------|------------------------------|------------|--------------------------------|------------------------------|------------|--------------------------------|------------------------------|------------|--------------------------------|------------------------------|------------|--------------------------------|------------------------------|------------|--------------------------------|
| | Acc. per bus of the bus type | Acc. count | Count by bus type in the fleet | Acc. per bus of the bus type | Acc. count | Count by bus type in the fleet | Acc. per bus of the bus type | Acc. count | Count by bus type in the fleet | Acc. per bus of the bus type | Acc. count | Count by bus type in the fleet | Acc. per bus of the bus type | Acc. count | Count by bus type in the fleet |
| Double Deck Bus | 0.33 | 55 | 167 | 0.23 | 39 | 172 | 0.19 | 34 | 183 | 0.18 | 34 | 193 | 0.22 | 52 | 241 |

8.2.10.2.2 Accident rates (no. of accidents per bus of the concerned bus type) of bus recorded at 0.22 in 2017.

8.2.10.2.3 All vehicle deployment of a route on a particular road section was approved by the Transport Department before the route comes to operation. As an operator, LWB will only deploy suitable bus types in accordance to different road constraints.

8.2.10.3 Bus Type – Bus Length

8.2.10.3.1 Table 8.18 and 8.19 shows the number of accident per bus and the count of accident recorded of buses in different bus length (between 2013-2017).

Table 8.18 Accidents by Bus Length (Per bus with concerned bus length)

| Bus Length (m) | Number of accidents per bus | | | | |
|----------------|-----------------------------|------|------|------|------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| 12 | 0.33 | 0.23 | 0.19 | 0.14 | 0.24 |
| 12.8 | N/A | N/A | N/A | 0.67 | 0.10 |

* N/A: there was no bus of such bus length as at 30 Jun of the year.

Table 8.19 Accidents by Bus Length (by count)

| Bus Length (m) | Number of accidents | | | | |
|----------------|---------------------|-----------|-----------|-----------|-----------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| 12 | 55 | 39 | 34 | 26 | 48 |
| 12.8 | N/A | N/A | N/A | 8 | 4 |
| Total | 55 | 39 | 34 | 34 | 52 |

* N/A: there was no bus of such bus length as at 30 Jun of the year.

8.2.10.3.2 Accident rate of bus with length of 12m was 0.24 in 2017. However, there were only 12m and 12.8m buses for LWB, and about 83% of the bus fleet is 12m buses. The accident rate was distorted by the proportion distribution.

8.2.10.3.3 The number of accidents per bus on 12.8m buses record higher than 12m in 2016, it is because there were just twelve 12.8m buses in 2016 (6% of the fleet). The accident rate was distorted by the small proportion.

8.2.10.3.4. All vehicle deployment of a route on a particular road section was approved by the Transport Department before the route comes to operation.

8.2.10.3.5. Internally, trial run will be conducted before bus routes comes to operation.

8.2.10.3.6. For bus routes to be operated by 12.8m buses, approval will be obtained by the Transport Department in advance. Bus captains will also receive additional training for driving 12.8m buses.

8.2.10.3.7. There is no direct correlation between Bus Accidents and Bus length.

8.2.11 Accidents by Vehicle Age

8.2.11.1 Table 8.20 shows the count of accident and number of accident per bus to the year the bus is first licensed (between 2013-2017).

| Year of bus licensed | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |
|----------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|
| | Count | Accident per bus | Count | Accident per bus | Count | Accident per bus | Count | Accident per bus | Count | Accident per bus |
| 2000 or before | 27 | 0.33 | 18 | 0.33 | 5 | 0.16 | 0 | 0.00 | 0 | 0.00 |
| 2001 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 2002 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 2003 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 2004 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 2005 | 1 | 0.33 | 1 | 0.33 | 1 | 0.33 | 0 | 0.00 | 3 | 1.00 |
| 2006 | 2 | 0.40 | 1 | 0.20 | 2 | 0.50 | 0 | 0.00 | 2 | 0.40 |
| 2007 | 1 | 0.14 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 4 | 0.50 |
| 2008 | 0 | 0.00 | 0 | 0.00 | 1 | 0.50 | 1 | 0.50 | 0 | 0.00 |
| 2009 | 6 | 0.55 | 0 | 0.00 | 2 | 0.18 | 1 | 0.09 | 2 | 0.18 |
| 2010 | 7 | 0.33 | 4 | 0.19 | 3 | 0.14 | 3 | 0.14 | 6 | 0.29 |
| 2011 | 5 | 0.36 | 3 | 0.20 | 2 | 0.13 | 4 | 0.27 | 2 | 0.13 |
| 2012 | 6 | 0.33 | 4 | 0.22 | 3 | 0.17 | 7 | 0.39 | 6 | 0.33 |
| 2013 | 0 | 0.00 | 1 | 0.10 | 3 | 0.30 | 1 | 0.10 | 3 | 0.30 |
| 2014 | N/A | N/A | 7 | 0.29 | 5 | 0.13 | 6 | 0.15 | 8 | 0.20 |
| 2015 | N/A | N/A | N/A | N/A | 7 | 0.35 | 2 | 0.08 | 7 | 0.27 |
| 2016 | N/A | N/A | N/A | N/A | N/A | N/A | 9 | 0.27 | 9 | 0.11 |
| 2017 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0.00 |
| Total | 55 | | 39 | | 34 | | 34 | | 52 | |

* N/A: there was no bus licensed on the year as at 30 Jun of the year.

8.2.11.2 The accident rates by the first licensed year of the buses ranged from 0.00 to 1.00 in 2017.

8.2.11.3 There is no direct correlation between Bus Accidents and vehicle age.

8.2.12 Accidents by Stairway Type of Bus

8.2.12.1 Table 8.21 shows the number of accident by stairway type between 2013-2017. Table 8.22 shows the number of accident per bus of the concerned stairway type between 2013-2017.

8.2.12.2 Table 8.22 shows there is no significant difference in the accidents by stairway types per bus in spiral/straight stairway types in 2013 to 2015. There was only one spiral stairway type bus in LWB fleet in 2016 and 2017 and no accident was recorded.

Table 8.21 Accidents by Stairway Type of Bus

| Stairway Type | Number of accidents | | | | |
|---------------|---------------------|-----------|-----------|-----------|-----------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| Straight | 28 | 21 | 29 | 34 | 52 |
| Spiral | 27 | 18 | 5 | 0 | 0 |
| Total | 55 | 39 | 34 | 34 | 52 |

Table 8.22 Accidents by Stairway Type of Bus (per bus of the concerned stairway type)

| Stairway Type | Number of accidents per bus | | | | |
|---------------|-----------------------------|------|------|------|------|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| Straight | 0.33 | 0.18 | 0.19 | 0.18 | 0.22 |
| Spiral | 0.33 | 0.33 | 0.16 | 0.00 | 0.00 |

8.2.12.3 Table 8.23 shows the count of accidents involving passenger losing balance on stairway in 2017.

Table 8.23 Accidents involving passenger losing balance on stairway

| Stairway Type | 2017 | | | |
|---------------|----------------------------|-----------------------------------|-----------|-------------|
| | Bus Captain blameworthy | Bus Captain not blameworthy | Total | (%) |
| Straight | 0 | 4 | 4 | 100% |
| Spiral | 0 | 0 | 0 | 0% |
| Total | 52 | 4 | 52 | 100% |

Note 8.23.1

There was only one spiral stairway type bus in LWB bus fleet as at 30 June 2017, and it was retired as at 31 December 2017

Note 8.23.1
Ref. Table 8.5

8.2.12.4 All of the 4 cases recorded on buses with straight stairway. As there was only one spiral stairway type in LWB in 2017, the record deemed to be reasonable. The analysis did not derive any direct correlation between Bus Accidents and stairway type of the bus.

8.3 **Improvement Measures**

8.3.1. Further to the analysis in Section 8.2, bus safety can be improved in the following aspects in addition to bus safety features, training and performance monitoring of bus captains:

- Passenger Education (ref to 8.6.13-14)
- Road User Education (ref to 8.6.11-12)
- Traffic Management (ref to 8.6.3-10)
- Training in Defensive Driving (ref to 8.6.15)

8.3.2. Apart from this, LWB has taken the below new initiatives in 2018-2019:

- a) Conducted an expedition to United Kingdom, and is cooperating with the Queen's University of Belfast to conduct a study and develop the Advanced Driver Assistance System (ADAS).
- b) Engaged external consultant - The Direx Solutions, to conduct a review on our bus operation.
- c) To adopt the Government's Digital Map system in updating the operational information
- d) To shorten the transmission of data from 'black box' from every 30s to every 10s.
- e) To enhance the speeding alert function of Openmatics black box. (ref to 8.3.4)

8.3.3. After the Tai Po Road Bus Accident, the management set up an Investigation Committee, which comes up recommendations on bus safety. Subsequently, the an action plan is formed for implementation. Please refer to page 28 to 39 for the progress of implementation.

Action plan for implementation of the Key Recommendations

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) | | | | | | | | | | | | |
|--|---|--|----|--|-----|---------|---|---|---|----|--|-----|---------|----|
| Recruitment | | | | | | | | | | | | | | |
| 1. To discontinue the employment of part time BCs whose working hours fall below 18 hours per week. | No more new employment of part time BC with working hours below 18 hours per week since 15 February 2018. <u>Milestone</u> 15 February 2018 | Same as before. | | | | | | | | | | | | |
| 2. To offer the previous part time BCs the option to convert to contract hourly rated BCs or to take up alternative duties in the Company. | Status of the 209 previous part time BCs: <table><tr><td>Agreed to work ≥ 18 hours a week</td><td>78</td></tr><tr><td>Agreed to work over 10 hours a week; declare doing part-time BCs at KMB/LWB will not breach the employment contract with their employer.</td><td>123</td></tr><tr><td>Quitted</td><td>8</td></tr></table> | Agreed to work ≥ 18 hours a week | 78 | Agreed to work over 10 hours a week; declare doing part-time BCs at KMB/LWB will not breach the employment contract with their employer. | 123 | Quitted | 8 | Status of the 209 previous Hourly Rated BCs: <table><tr><td>Contract signed (work ≥ 18 hours a week)</td><td>73</td></tr><tr><td>Contract signed (work over 10 hours a week); declared doing Hourly Rated BC at KMB/LWB will not breach the employment contract with their employer</td><td>109</td></tr><tr><td>Quitted</td><td>27</td></tr></table> | Contract signed (work ≥ 18 hours a week) | 73 | Contract signed (work over 10 hours a week); declared doing Hourly Rated BC at KMB/LWB will not breach the employment contract with their employer | 109 | Quitted | 27 |
| Agreed to work ≥ 18 hours a week | 78 | | | | | | | | | | | | | |
| Agreed to work over 10 hours a week; declare doing part-time BCs at KMB/LWB will not breach the employment contract with their employer. | 123 | | | | | | | | | | | | | |
| Quitted | 8 | | | | | | | | | | | | | |
| Contract signed (work ≥ 18 hours a week) | 73 | | | | | | | | | | | | | |
| Contract signed (work over 10 hours a week); declared doing Hourly Rated BC at KMB/LWB will not breach the employment contract with their employer | 109 | | | | | | | | | | | | | |
| Quitted | 27 | | | | | | | | | | | | | |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|---|--|--|
| Training | | |
| <p>3. All newly recruited BC candidates should be subject to the same standard of training i.e. phase 1 of training to meet the standard of passing 17 (public bus (franchised)) driving test conducted by TD; and phase 2 of training to meet the standard required by KMB/LWB including safe driving techniques, emotional control and route training.</p> | <p>New recruits that only possess driving licenses 1 & 2, should undergo both Phase 1 and Phase 2 of training.</p> <p>Those who have already possessed driving license 10 or 17, and passed BCTS' pre-course driving assessment, are allowed to join Phase 2.</p> <p>In case he/she failed the pre-course driving assessment, he/she has to start from Phase 1.</p> <p>The same rule also applies to internal staff members.</p> <p><u>Milestone</u> The above action has been implemented from 14 March 2018.</p> | <p>Same as before.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|---|---|--|
| <p>4. Bus Captain Training School should extend the route training to all bus routes operated by KMB. Each BC is required to get trained with an instructor for each new route.</p> | <p>Each BC is required to receive formal route training delivered by a BCTS' driving instructor ("DI") in the ratio of 1:6 before he/she is deployed to drive a new route.</p> <p>After the training, a DI will authorize the BC to drive the new route and the BC will also sign an agreement that he/she is familiar with the route. The record will be kept in computer.</p> <p><u>Milestone</u> The above action plan has taken effect from 15 February 2018.</p> | <p>Same as before.</p> |
| <p>5. Any BC who is convicted of careless driving or has committed multiple traffic contraventions should attend remedial training.</p> | <p>Performance managers will refer BCs who were convicted of careless driving or with poor driving record to BCTS for remedial training.</p> <p><u>Milestone</u> On-going (it has been an established practice).</p> | <p>Same as before.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|---|--|
| <p>6. Any BC who has taken a consecutive period of leave for 30 days or more or has been cumulatively absent from work for 30 days in a 2 month period should attend a full day remedial training.</p> | <p>HRD and Operations will refer BCs who have not performed consecutive driving duty for 30 days or more, due to sick leave and injury leave or due to operational reasons, to BCTS for a full day remedial training respectively.</p> <p>A full day remedial training for BCs who have been cumulatively absent from duty for over 30 days or more in a 2-month period will be required subject to consultation and subsequent agreement with the trade unions.</p> <p><u>Milestone</u> On-going</p> | <p>On-going.</p> <p>No consultation and agreement yet.</p> |
| <p>7. The number of KMB/LWB driving instructors should be increased to a total of 110.</p> | <p>An additional 15 DI licenses have been approved by TD. The selection of DI candidates was completed on 19 March 2018. The DI candidates would complete all training and necessary TD's exams before 30 June 2018 to form a cadre of 81 DIs.</p> <p><u>Milestone</u> With the capacity of 81 DIs, the workload of DIs and the necessity of additional DIs will be reviewed in Q3 2018 and an application of additional 29 DI licenses, to form a cadre of 110, will be submitted.</p> | <p>16 DI candidates have attended and passed TD's written examination and driving test by June 2018 and joined BCTS to form a cadre of 81 DIs.</p> <p><u>Milestone</u> Same as before.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|---|---|
| Performance | | |
| 8. Each newly recruited BC should declare his employment, whether on a part time or full time basis; any serious illness that would affect road safety, and criminal records. KMB should conduct a formal assessment on each BC. | <p>The following requirements have been implemented for all newly hired BCs:</p> <ul style="list-style-type: none"> - declaration of illness; - declaration of criminal record; and - traffic conviction check. <p>Remark: No new hire of part-time BC since 15 February 2018.</p> | Same as before. |
| 9. KMB/LWB should conduct a traffic conviction search for each contract hourly rated BC every 6 months whereas all full time BCs including employed retirees on an annual basis. | <p>New BCs are required to submit their traffic conviction records during recruitment.</p> <p>In-service contract hourly rate BCs (previously known as part-time BCs) have to submit their traffic conviction records every 6 months.</p> <p>Checking the traffic conviction record of in-service full-time BCs will be subject to consultation and subsequent agreement with the trade unions.</p> | <p>For new hire: traffic conviction check has been implemented and has become an on-going measure.</p> <p>For in service contract hourly rated BCs: the first round of traffic conviction check was completed in April 2018. Next round will be done in October 2018.</p> <p>For in service full time BCs: will consult the trade unions and the BCs affected by end of September 2018.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|---|--|
| <p>10. KMB should monitor BCs' performance by analyzing his driving record from the black box installed on buses and improve the effectiveness and timeliness of follow up disciplinary actions on BCs' inappropriate driving behavior and attitude.</p> | <p>Operations Sections will continue monitoring bus speed by using the "BOP 207" functions in the black box system. Checking is done on a daily basis. BOP 207 is capable of checking speeding that occurred 10 days before. Any abnormalities will be dealt with and reported promptly to TQD, which will then commence disciplinary procedures.</p> <p><u>Milestone</u> IT Dept. is in the process of enhancing the presentation of the Bus Performance Reports to facilitate monitoring speeding, harsh braking and abrupt acceleration. After the enhancement of BOM System, Operation Sections will analyze the data of preceding 8 days twice a week to provide driving records of BCs with irregularities. The reports will be passed to TQD twice a week. Immediate actions will be taken to alert respective BCs to deter them from committing the same faults. The whole process will finish in 14 working days. Upon confirmation of the speedometer check is correct, a follow-up action of issuing warning letter or appropriate disciplinary actions will be taken.</p> | <p>Operations Sections will continue monitoring bus speed by using the "BOP 207" functions in the black box system. Checking is done on a daily basis. BOP 207 is capable of checking speeding that occurred 4 days before. Any abnormalities will be dealt with and reported promptly to TQD, which will then commence disciplinary procedures.</p> <p>Raw data of speeding, harsh braking and abrupt acceleration will be generated weekly. For speeding cases, Operation Sections will be informed to remind respective BCs. For harsh braking and abrupt acceleration, plain clothes driving instructors will be deployed to conduct on-board check within one week. TQD will take disciplinary actions against BCs with poor driving performance.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|---|--|--|
| <p>11. The Training and Quality Assurance Department of KMB/LWB should take disciplinary actions against BCs with problems of speeding, abrupt acceleration, harsh braking and other poor performance within 14 working days.</p> | <p>Refer to the answer to item 10 above.</p> | <p>Refer to the answer to item 10 above.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|---|---|---|
| Working conditions | | |
| <p>12. KMB/LWB should implement the revised Guidelines on Bus Captain Working Hours, Rest times and Meal Breaks by the end of 2018 and reduce the maximum working hours for split duties to 13 hours.</p> | <p>The implementation plan of the revised Guidelines will be as follows: -</p> <ol style="list-style-type: none"> 1. Computer system modifications below will be conducted between April and December 2018: <ul style="list-style-type: none"> - scheduling system modifications between April and May 2018 - duty rostering system modifications between May and September 2018 - duty dispatching system modifications between July and October 2018 - modifications of reports for guidelines checking for actual duty between November and December 2018 2. Guideline number (2) will be fully complied effective from 1 November 2018 3. Rescheduling bus and crew duties will be implemented by phases starting from October 2018, and to be completed by end of April 2019 4. Guideline number (1)(a), (1)(b), (3) will be fully complied effective from 1 May 2019 <p>Reduction of maximum working hours for split duties to 13 hours will be reviewed upon the full implementation of the revised Guidelines.</p> | <p>Same as before.</p> <p>Everything is on schedule.</p> <p>Scheduling system modification was completed in May 2018.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|---|--|--|
| Psychological support | | |
| 13. KMB/LWB should engage a professional consultant to provide a comprehensive review of the current practice and recommendations will be implemented phase by phase to address immediate concerns. | A restricted tender has been sent out to invite professional consultants to provide such service. All the interested consultants will be invited to present their proposal in early May 2018 and the Task Force will appoint the consultant in mid May 2018. The consultancy service should be completed within 6 to 9 months. It is expected the consultant will make recommendations on psychological well being issues including but not limited to recruitment, training, performance management as well as developing tools and training programs that fit our needs. | <p>The consultancy team from the psychology department of a local university was appointed on 31 May 2018. In June 2018, the team has kicked off its review of the current practice in relation to the provision of emotional support through visiting depots, BCTS and Hotline Center, and meetings with Deputy Operations Director, depot staff, zone heads, driving instructors, recruitment team and employee relations team of HR department.</p> <p>In July 2018, the consultancy team has shared their initial observations with the Task Force. Both parties have worked out the general approach in delivering the project and the key activities in the coming months, namely to set up some focus groups to collect views directly from BCs and frontline staff on their needs in terms of psychological support and well being, to plan the training of driving instructors which was scheduled to start in September 2018, to further review the recruitment process so as to maximize its effectiveness, and to develop supporting activities for building a balanced and healthy work life.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|---|---|
| Measures to enhance bus safety | | |
| 14. Safety belts- KMB/LWB has already requested its suppliers to install safety belts on all seats as a standard feature for new buses ordered after 5 March 2018. As for buses that are currently in service, where certain routes so required, safety belts will be installed on the bus upper decks phase by phase. | <p><u>Installation of safety belts on new buses ordered after 5 March 2018</u> Safety belts on all seats have been requested on new ordered buses after 5 March 2018.</p> <p><u>Installation of safety belts on all seats of existing buses</u> Installation of safety belts on lower deck of existing buses is not feasible as this will involve major structural alternation. The feasibility of "installing safety belts on upper deck seats only" will be updated by our suppliers in due course.</p> | <p><u>Installation of safety belts on new buses ordered after 5 March 2018</u> Completed.</p> <p><u>Installation of safety belts on all seats of existing buses</u> Volvo and ADL advise that installation of safety belts on upper deck of certain existing buses is feasible. Volvo and ADL will provide technical details. Reduction in carrying capacity and bus down time for retrofit should be considered.</p> |
| 15. Electronic Stability Program – KMB/LWB should test and verify with bus suppliers the installation of ESP in EURO V and EURO VI to reduce the risk of skidding and rolling over. | <p>New ordered Euro VI buses will have ESP installed.</p> <p>Feasibility for retrofitting on existing buses will be updated in due course.</p> | <p>New Euro VI buses to be delivered in 2019 will have ESP installed.</p> <p>Volvo indicated that lead time of 18-24 months will be required for developing a retrofitting solution for the existing Euro V buses. ADL has yet to confirm the retrofitting solution in due course.</p> |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|--|---|
| 16. Geo-fencing—KMB/LWB should set speed limits of buses running through specific geo-fences. Upon satisfactory testing, they should consider using the technology in the fleet in particular routes with steep slopes or sharp bends. | Bus suppliers are studying how to implement this feature. Feasibility study is ongoing. | <p>A test drive was arranged with Volvo on 28 June 2018. The test drive showed that the speed limiter could change its threshold according to the defined 50 km/h and 70 km/h speed limit zones. Another test drive on a specific route will be arranged by August 2018.</p> <p>A test drive was arranged with Openmatics on 31 July 2018. The test drive showed that speed alert could be produced according to the defined 50 km/h and 70 km/h speed limit zones.</p> |
| 17. Tilt alarm – tilt alarm should be installed on the entire fleet to alert BCs when the bus has reached a specific inclination. | Bus suppliers have been urged to study and suggest the inclination threshold. Feasibility will be updated in due course. | All bus manufacturers do not recommend a tilt alarm as the signal may be either too early or too late. Should the threshold be set at a level that a warning is sent to the BC in time for him/her to react, that might cause a number of nuisance activations which may lead to the BC ignoring the warning. Should the threshold be set to a higher level, by the time the BC has the chance to react to the warning, there is a danger that it may be too late. It is also hard to predict what action the BC will have, such as harsh braking or over-steering. |
| 18. Speed alarm—an audible alert and a warning light should be activated to warn BC when the bus speed is beyond 70km/hr. | Completed. | Completed. |

| Topic | Action plan with milestone and date (as of 10 April 2018) | Action plan with milestone and date (as of 1 August 2018) |
|--|--|--|
| 19. Speed limitation—speed limitation system which will automatically activate the brakes to slow down the gearbox should be installed on new buses after a period of engineering and testing. | Both ADL and Volvo are studying how this system could be implemented on new bus. Feasibility will be updated in due course. | ADL Euro VI new buses will come with this feature. Volvo will have this feature available in July 2019 and their Euro VI new buses delivered before this time will have the feature retrofitted. |
| 20. Condensation - either hot air demisters or heated windscreens should be adopted for more effective and faster dehumidification. | Either hot air demisters or heated windscreen has been adopted as standard features on new ordered buses after March 2018. Existing buses will be retrofitted with hot air demisters or heated wind screens by phase within the next 12 months. | Completed. On schedule. |
| 21. Drowsiness of bus captain – KMB/LWB should test device to monitor drowsiness of BCs while they are driving and install such system in all buses if the result is satisfactory. | This drowsiness monitoring system will be installed into 4 buses for trial at the end of April 2018. | Initial trial in June 2018 showed that the drowsiness monitoring system could perform its functions. Trial run of the system in 4 buses has started since end of June 2018. The device is positioned to help BCs rather than to take disciplinary action against them. Recording function is not enabled. |

8.3.4 To enhance the speeding alert functions of Openmatics black box

Current system

Openmatics is the current supplier of black box on KMB / LWB buses. On speeding alert, the Openmatics black box compares the actual speed from Controller Area Network System onboard with the speed limit threshold, which is currently set at 70 kph.

1. Real-time onboard speed alert at 70 kph.
2. The black box data are being uploaded to the KMB/LWB server from buses for processing and further merging with KMB/LWB systems. The processing time is currently 4 days.

Challenges

| Challenges | Suggested solutions |
|--|---|
| Unable to identify the speed limit on actual locations | <ul style="list-style-type: none"> • Live digital map with accurate speed limits from the Government |
| Lengthy data processing time for speeding offences | <ul style="list-style-type: none"> • Live digital map with accurate speed limits from the Government • Improve internal data processing |

Works undertaken

A number of initiatives have being carried out to improve the above.

Openmatics has manually defined 50 kph and 70 kph zonings (please refer to Annex). KMB/LWB had started a conceptual trial on 31 July 2018 by comparing the above speed limits with the actual speed. Such trial is to verify whether the real-time onboard speed alert would notify the bus captains upon the actual speed of the trial bus exceeds the speed limit of the road. The result of the initial trial is so far positive. Further testing will be carried out. We are prepared to introduce the Government's digital map into the Openmatics black box, which will take three to four months. However, the Government's digital map does not contain live information, and can only be updated every 6 months.

In order to shorten the backend 4 day processing, KMB/LWB will adopt the blackbox as source to eliminate the duplicated information within KMB/LWB systems.

In parallel, we are also working with bus manufacturers to explore the feasibility of geo-fencing. With the new technology, the black box has potential to assist the control of the buses when certain parameters are met (i.e. speed limiter includes cutting off fuel supply or braking).

Timeline

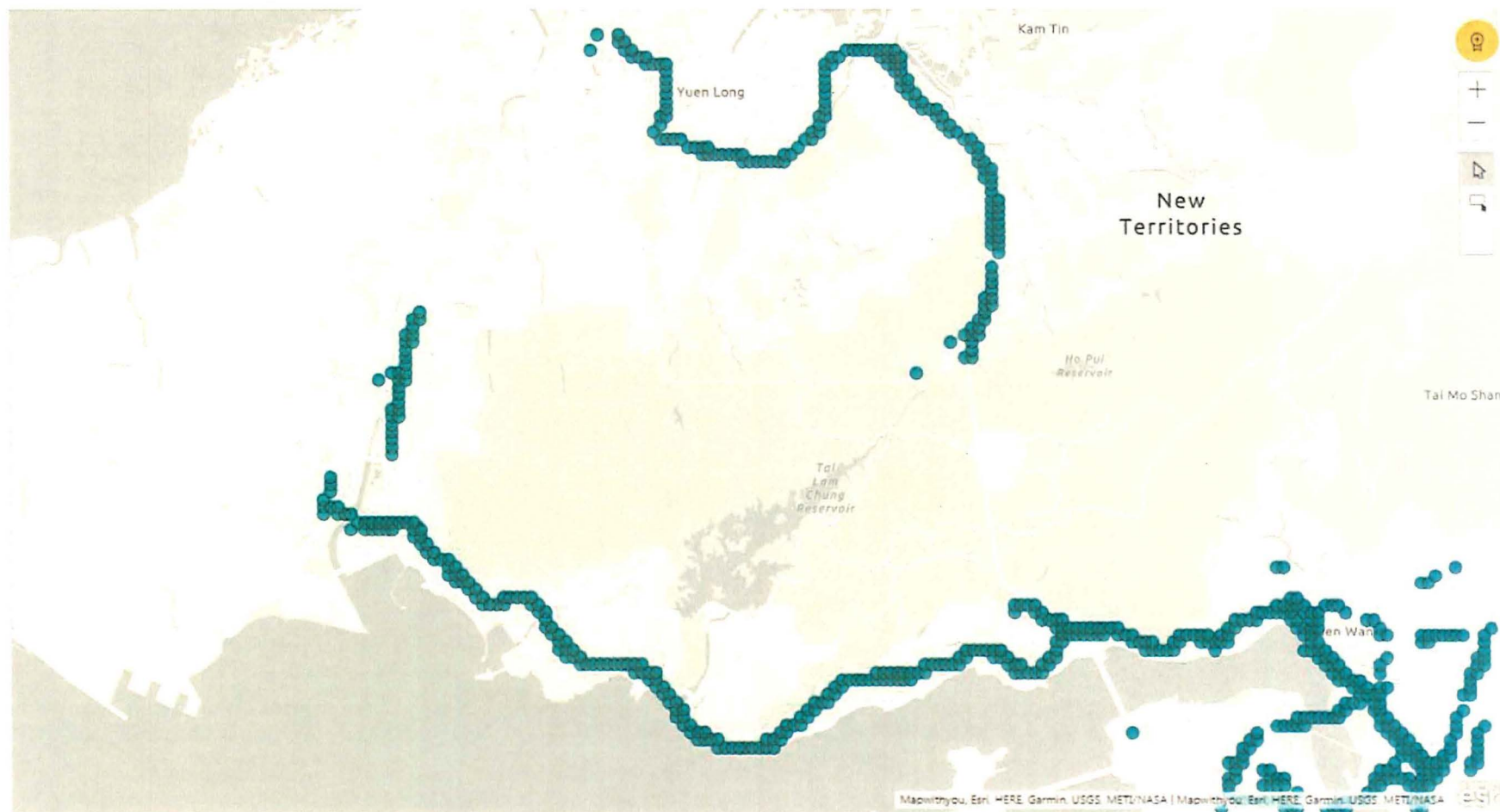
| | Sep-18 | Oct-18 | Nov-18 | Dec-18 | Jan-19 | Feb-19 | Mar-19 | Apr-19 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Real-time alert | | | | | | | | |
| Incorporate speed limit into black box by Openmatics | | | | | | | | |
| Validate the speed limit accuracy | | | | | | | | |
| Carry out internal trial | | | | | | | | |
| Consultation with frontline staff | | | | | | | | |
| Implementation to full fleet | | | | | | | | |
| Data processing | | | | | | | | |
| Integration of internal systems | | | | | | | | |
| Geo-fencing (fuel cutting) | | | | | | | | |
| Discussion with bus manufacturers | | | | | | | | |
| Development by bus manufacturers | | | | | | | | |
| Carry out internal trial | | | | | | | | |
| Consultation with frontline staff | | | | | | | | |
| Implementation to full fleet | | | | | | | | |

Target

| Current | Future |
|---|---|
| Activation of speed alert when the speed exceeds 70 kph | Activation of speed alert when the speed exceeds the actual speed limit |
| Activation of fuel cutting when the speed exceeds 70 kph | Activation of geo-fencing (including fuel cutting, gear lowering and braking) when the speed exceeds the actual speed limit |
| Processing time of 4 days in the back-end for speeding offences | Processing time can be shorten further in the back-end for speeding offences |

Annex: Speed zones defined for the trial on 31 July 2018

- Green dots: speed limit of 70 kph
- Other areas: speed limit of 50 kph



8.4 Proposed Target Accident Rate

8.4.1. Accident Rate in this context is defined as the average number of bus accidents involving personal injuries or deaths per million vehicle/km operated in the reporting year. This definition used is in line with the previous practice and different franchised bus operators.

8.4.2. Accident Rates of LWB in the past 5 years are as follows.

| Year | 2013 | 2014 | 2015 | 2016 | 2017 |
|---------------|------|------|------|------|------|
| Accident Rate | 1.92 | 1.33 | 1.09 | 0.92 | 1.21 |

8.4.3 In setting the target accident rate for the period covered by this Forward Planning Programme, consideration should be given to (i) the historical accident rate of LWB, (ii) the improvement measures formulated and its expected benefits.

8.4.4 Accident rate of a franchised bus operator is highly correlated to the network the operator served. Accident rates of different franchisees vary by the network they served. Both KMB and LWB are managed under the same management system, their accident rate vary due mainly to different networks they served. Likewise, other franchisees A, B and C are managed by the same management, their accident rate vary too.

| | Major coverage | Period | Accident Rate |
|-------------------|-----------------------|-----------|---------------|
| KMB | Kowloon, NT | 2017 | 2.90 |
| LWB | Tung Chung, NT | 2017 | 1.21 |
| Other franchise A | HK Island | 2016/2017 | 6.05* |
| Other franchise B | HK Island | 2016/2017 | 4.94* |
| Other franchise C | Tung Chung, HK Island | 2016/2017 | 1.55* |
| Other franchise D | Lantau Island | 2016/2017 | 1.92 |

* provisional figure

8.4.5 The bus network served by LWB has changed over time. Every year, there are addition of new routes, adjustment of service frequency of certain routes and cancellation of routes. More reference value will have for the figure in recent years. In the past 3 years (i.e. 2015, 2016 and 2017), the lowest accident rate is 0.92 in 2016. The target accident rate going to set should be lower than this level.

8.4.6 A number of initiatives for improvement of bus safety are taken in 2018/19. Details see section 8.3. It is anticipated that these measures, after implementation, will improve the accident rate over time. LWB set the target rate for the period covered by this Forward Planning Programme as 0.80, representing an improvement from 2017.

8.5 Safety Suggestions to Transport Department

8.5.1. An effective way to reduce accidents is to eliminate hazards at source. Apart from enhancing training and monitoring for bus captains, improving duty rostering and scheduling, promoting safety to passengers and upgrading bus safety features, LWB has provided safety suggestions to the Transport Department with the aim of eliminating or minimising hazards.

8.5.2. LWB has been actively in raising ideas to eliminate or minimise road hazards. The safety suggestions are all-rounded, including provision of proper road markings/signage, re-arrangement of bus stops, strengthening of enforcement of illegal parking and jaywalking, extension of prohibited zones, correction of misleading road markings/signage, provision/removal of guard railings, modification of bus termini, and provision of lighting.

Table 8. 24 Safety Suggestions to Transport Department

| | 2017 | 2018 1H |
|--|------|---------|
| No. of safety suggestion letters first issued (reminders excluded) | 29 | 18 |

8.5.3. LWB has followed up with the Transport Department on the reply regularly.

8.6 Complementary Policies and Measures

Rest environment

8.6.1. LWB have been upgrading the working environment for their frontline staff, for example, by adding staff rest kiosks with air-conditioners at bus termini, as part of their bid to enhance driving safety. The setting up of rest kiosks cannot be timely done without the support and collaboration of the Government. We are working together with the TD to take the lead in coordinating the authorities involved to speed up the process.

Database for conviction record of bus captains

8.6.2. LWB plans to strengthen the checking of traffic conviction record on existing bus captains. Currently the existing database of TD for checking bus captain's traffic conviction record applies to new recruitments. If the scope can extend to in-service bus captains, it can facilitate the work. LWB views it is better to simplify the procedure by establishing a central database of the conviction records of drivers to facilitate timely safety assessment of drivers. We will discuss this further with TD.

Setting up Bus-only Lanes

8.6.3. Bus safety will be enhanced by an effectively implemented bus priority policy, especially the setting up of bus-only lanes. Unlike other road-based public transport modes, franchised buses operate in a volatile road environment with standees on board, and they are prone to injury even under minimal impact. In view of the vulnerability of passengers on franchised buses, setting up more bus-only lanes would significantly reduce competition for space on the road, which in turn will enhance safety for bus passengers. The setting up of more bus-only lanes is also part of the recommendation stated in the Public Transport Strategy Study (PTSS) published in June 2017.

8.6.4. As some cyclists use the roads along with other vehicles, cyclists may be exposed to danger when motor vehicles overtake them. Since cyclists are permitted to use bus lanes unless there are signs banning them, setting up more bus-only lanes would provide a safer cycling and driving environment.

Illegal parking

8.6.5. Illegal parking at bus stops is a major cause of improper stopping of buses, by which road users' safety will be jeopardised as passengers have to board and alight on the road instead of at the bus stop. Moreover, due to illegal on-street parking, the incidence of forced lane changes increases. Buses and other vehicles overtaking illegally parked vehicles pose a safety concern for boarding and alighting passengers, as well as other road users.

8.6.6. LWB have appealed to the Transport Department and other relevant authorities in respect of this issue. We hope effective measures will be put in place to tackle the passenger safety problem stemming from illegal parking. On the other hand, LWB is working close with the Police to facilitate the enforcement on this matter.

Bus terminus design

8.6.7. The majority of bus termini in Hong Kong adopt the "multiple boarding islands" design, a bus terminus design in use since the 1970s. The design potentially induces crossing conflict, as passengers have to use the same lanes as buses. LWB will also offer the view on the design of new bus termini in future.

Government support for safety technology

8.6.8. Safety technology needs considerable amount of investment. Given that safety is an industry concern, if the Government should consider expanding its sponsorship/subsidy schemes to fund part of research and development costs in respect of various safety-related and traffic management technologies and make them available to all franchised bus operators, it will help accelerate the pace of development

Enforcement of Public Bus Services Regulations (Cap. 230A)

8.6.9. Safe driving is vital to the interests not just of bus passengers, but also of all other road users. Bus captains should be free from disruptions or unnecessary distractions of any kind. In recent years, there have been many cases of LWB bus captains being disturbed or assaulted in the course of conducting their driving duty. However, we note that offenders have been charged only with common assault, while another criminal charge stipulated in "Public Bus Services Regulations (Cap. 230A)" ("the Regulations") is rarely brought.

8.6.10. We continue discussing with relevant Government Departments to consider bringing additional charges as per the Regulations, apart from the common assault charge, to safeguard public safety on buses.

Other road user education

8.6.11. Promoting driving courtesy in respect of public transport vehicles is essential to road safety, as many bus related accidents are caused by improper driving attitude, inter alia, the failure to give way to buses. As stated above, passengers on buses are more vulnerable to traffic accidents, so the Government should proactively educate drivers to give way to buses.

8.6.12. LWB has looked into overseas experiences and will share our findings with TD. The Government of South Australia stipulates that drivers must give way to a bus if the bus is indicating that it intends to move away from the kerb. (The Driver's Handbook: <http://mylicence.sa.gov.au/road-rules/the-drivers-handbook/giving-way>) The Hong Kong Government may draw on this precedent to amend the Road Users' Code to instruct drivers to give way to buses. In fact, the Transport and Housing Bureau began updating the Road Users' Code in 2018, to include advice for cyclists, the elderly and the disabled on the safe use of roads and related facilities. LWB looks forward to seeing a further enhancement in respect of this suggestion soon.

Enhancement of public education

8.6.13. With regard to the growing number of cases of verbal and physical harassment of frontline staff, as a responsible public bus operator, LWB has put up notices inside bus compartments informing people on board that "It is an offence to talk to the bus captain while the vehicle is in motion" and "Disturbing a bus captain is a criminal offence". Comprehensive training and improvement courses are also regularly provided to LWB bus captains to ensure the continued provision of safe and comfortable bus journeys to the public. The Government may also consider enhancing public education by introducing Announcements in the Public Interest (API) in relation to the etiquette of using bus services.

8.6.14. Transport Department is undergoing a Courtesy Campaign for Public Transport which will be launched in November 2018. The campaign aims at raising public awareness and promotes courteous behavior in public transport. LWB has participated actively in this Campaign

LWB will discuss with Transport Department of the initiatives mentioned in paragraphs 8.6.1 - 8.6.14.

Defensive driving

8.6.15. In view of a large portion of traffic accidents recorded in 2017 is bus captain not blameworthy, the awareness of other road user and driving environment will be important to minimise the chance of traffic accidents. LWB will further emphasis defensive driving in the bus captain training programme.

8.6.16. Details of training provided to new and serving bus captains are given in Annex 8.1.

Annex 8.1**A. Regular Training for New Bus Captains**

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|----------------------|---|---|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for Transport Department class 17 licence tests and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident blackspot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus type familiarisation and route training (night drive included).</p> | <p>18 days full time</p> <p>(68 hours on road driving practice by each trainee and 17 hours classroom training plus 6.5 hours online training of self-study mode)</p> | Before posting to duty | <p>2 routes</p> <p>3-4 bus types</p> |

B. Regular Training for Serving Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|----------------------|---|-----------------|---|---|
| 1. | Refresher Training | This training covers: <ul style="list-style-type: none"> ✧ strengthen the bus manoeuvring skills and defensive driving technique ✧ bus fire evacuation revision training ✧ customer service improvement training ✧ stress management training ✧ training on bus ramp operating | 0.5 day | Once every three years for all Bus captains | N/A |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 full day | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | N/A The bus type that the in-service BCs usually use |
| 3. | Route Training | Familiarise the route on-the-wheel under the supervision of Driving Instructor | 1 full day | Before an in-service BCs to be posted to a new route | 1 mother route and 1 sub-route (if any) |
| 4. | Bus Type Training | Familiarise a new bus type on-the-wheel under the supervision of Driving Instructor | 1 full day | Before driving a new bus type | 1 bus type 1 bus route |

- Training protocols are subject to ongoing review, albeit that the aim will be to continue to do all that is reasonably practicable to ensure the safety and comfort of passengers, staff and other road users at all times

Table showing the number of passengers injured and fatalities in 2018

| Accident Nature | 2018 Jan-June | | | | | |
|---|--------------------|------|------------------|-----------------|-----------------------------|------|
| | No. of accident | % | No. of injury | No. of fatal | Total No. of Causalities | % |
| Non-Collision | | | | | | |
| Loss of Balance | 349 | 54% | 396 | - | 396 | 46% |
| Other non-collision | | | | | | |
| Injury To Alighting/Boarding Passenger | 14 | 2% | 15 | - | 15 | 2% |
| Injury To Passenger Inside Bus | 17 | 3% | 16 | - | 16 | 2% |
| Others | 1 | 0.2% | 1 | - | 1 | 0.1% |
| sub-total | 381 | 59% | 428 | 0 | 428 | 50% |
| Collision | | | | | | |
| Collision With Third Party Vehicle (changing lane) | 79 | 12% | 89 | - | 89 | 10% |
| Head On/Tail Collision | 65 | 10% | 113 | 1 | 114 | 13% |
| Glancing Collision | 46 | 7% | 56 | - | 56 | 7% |
| Injury To Pedestrian | 24 | 4% | 23 | - | 23 | 3% |
| Junction Collision | 25 | 4% | 36 | 1 | 37 | 4% |
| Hit Stationary Object/Vehicle/Animal | 9 | 1% | 9 | - | 9 | 1% |
| Collision With Other Vehicle (rolling back/ forward/ reversing) | 8 | 1% | 14 | - | 14 | 2% |
| Entering Roundabout Collision | 3 | 0.5% | 3 | - | 3 | 0.3% |
| Bus Overturn/Topple | 1 | 0.2% | 66 | 19 | 85 | 10% |
| sub-total | 260 | 41% | 409 | 21 | 430 | 50% |
| Total | 641 | 100% | 837 | 21 | 858 | 100% |

Fatal accidents

Up to 30 June 2018, 3 accidents with fatalities were recorded in 2018, details are set out below:-

- 1) On 10 February 2018 at Tai Po: 19 fatalities and 66 injured persons.
- 2) On 18 April 2018 at Shatin: junction collision involving a bicycle and a KMB bus (Route N182), cyclist deceased.

- 3) On 5 May 2018 at Kam Tin: head on collision involving a truck and a KMB bus (Route 54), truck driver deceased. The driver of the truck died in the accident as a result of his reckless driving. Police informed the bus captain that she was not the investigation target in this accident.

Loss of balance

Out of the 396 injured persons recorded in Loss Of Balance, 395 cases were passengers and one case was a bus captain. There was no fatality.

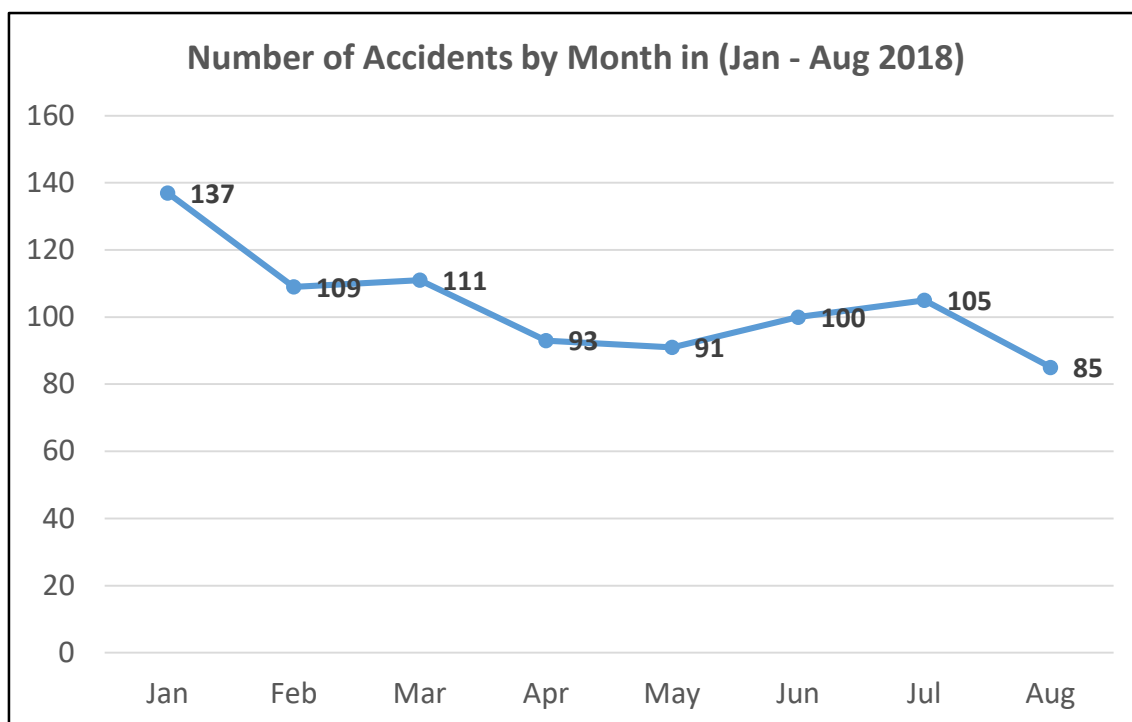
Further study of the age of passengers was conducted and the distribution is set out below:-

| Age of Passenger (years) | No. of injured passengers | % |
|--------------------------|---------------------------|------|
| Below 11 | 14 | 4% |
| 12-40 | 65 | 16% |
| 41-50 | 58 | 15% |
| 51-60 | 73 | 18% |
| 61-70 | 76 | 19% |
| Above 70 | 77 | 19% |
| Not provided | 32 | 8% |
| | 395 | 100% |

Among the 395 injured passengers as mentioned above, 226 (57%) of them are above 50 years of age.

Apart from training and performance monitoring of bus captains, the following passenger engagements are being done at the same time:-

- 1) To encourage youngsters to give their seats to passengers in need by civil education. KMB holds depot visits for local youth centres, schools and other educational institutes. One of the purposes of the programme is to introduce the caring facilities in bus compartments, including the priority seats;
- 2) KMB makes use of its bus stop announcement system to broadcast messages encouraging passengers to give seats to those in need; and
- 3) Stickers are placed on buses to raise awareness of the need to hold the handrail when travelling on buses.

Accidents by month in 2018 (January – August):

Our Safety Section (part of Training and Quality Assurance Department) performs monthly analysis of accident causes.

Based on the analysis of accidents from January to June 2018, it was noted that Loss of Balance (“LOB”) contributed to more than half of the total accidents during the period:

| Accident Nature | Jan – June 2018 No. of accidents | % | Note |
|---------------------|-------------------------------------|-------------|---------------|
| Loss of Balance | 349 | 54% | See (a) below |
| Other non-collision | 32 | 5% | |
| Collision | 260 | 41% | |
| Total | 641 | 100% | |

a. Location for LOB:

| Location for LOB | Jan – June 2018 No. of accidents | % | Actions taken |
|----------------------------------|---|-------------|---------------------------|
| 1. On Stairway | 69 | 20% | Enhancement in bus design |
| 2. Elsewhere other than stairway | 280 | 80% | See (c) below |
| Total | 349 | 100% | |

b. Accident Investigation result for LOB:

| Accident Investigation Result | Jan – June 2018 No. of accidents | % |
|--------------------------------------|---|-------------|
| 1. Braking in traffic | 215 | 62% |
| 2. Sudden acceleration | 73 | 21% |
| 3. Bus moving in traffic | 45 | 13% |
| 4. Others | 16 | 4% |
| Total | 349 | 100% |

c. Actions taken

In response to the above analysis, the following actions have been done:

Monitoring Bus Captains' driving behaviour:

- A weekly Bus Performance Report is generated, based on the black box data, to monitor Bus Captains' driving behaviour, and the report includes (1) "Harsh Braking" and (2) "Sudden Acceleration". Our Training and Quality Assurance Department reviews this report on a weekly basis and takes appropriate follow up actions with the concerned Bus Captains (e.g. remedial training, monitoring by plain-cloth driving instructors).
- Continuously reminds Bus Captains on safe and caring driving via different channels, such as messages via Terminus Management System ("TER"), posters, safety forum and face-to-face briefing at bus termini.

Education to passengers:

- Bus stop announcement system and bus stickers to remind passengers to hold the handrail and give seat to passengers who are in need.
- “Hold the Handrail” message on KMB Facebook and KMB/LWB Mobile App.
- Passenger safety video broadcasted via Estimated Time of Arrival (“ETA”) panels at bus stops.
- Outdoor staff verbally remind passengers to tightly hold the handrail at busy locations.

[Blank Page]

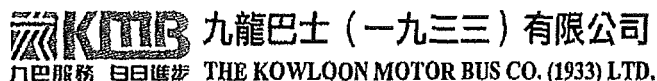
Information regarding the single “bus overturn/topple” case in 2016

The bus involved was on a non-revenue trip, hence it was not carrying any passengers. The driver was slightly injured.

| | |
|-----------------------|---|
| Date and time: | 8 February 2016 at 14:50 |
| Location: | Fuk Hi Street, Yuen Long |
| Vehicle number: | JV8208 |
| Route serving: | Not applicable, it was a non-revenue and non-passenger carrying trip from Tin Shui Wai Depot to Yuen Long Depot |
| Number of casualties: | 1 injury and no deaths (only the driver was injured, no passengers on board, no other road user was injured) |
| Accident details: | The bus (JV8208) was driven by a Service Department staff member from Tin Shui Wai Depot to Yuen Long Depot at 14:35 on 8 February 2016. At around 14:50, the bus was driving at the speed of about 20 km/hr when it reached Fuk Hi Street. Suddenly a dog dashed out into the path of the bus from the left side of the road. The driver braked the bus and steered right. He first hit a lamppost and then a road sign. The bus overturned to the left. |
| Damage to Bus: | Windscreen, front body, left body |
| Property damage: | Exterior fence of a company’s building, a lamppost, and a road sign |
| Remarks: | The accident was not caused by mechanical breakdown |

Information regarding the 27 “hit a street object or a vehicle or an animal” accidents in 2016

| Hit a street object or a vehicle or an animal | 2016 | 2017 |
|---|------|------|
| No. of accidents | 27 | 15 |
| No. of casualties | | |
| • Passengers | 36 | 34 |
| • Pedestrians | 4 | 10 |
| • Bus captains | 7 | 5 |
| • Other vehicle drivers | 4 | 1 |
| | 51 | 50 |



Our Ref: LCKD/OPN/2074/17

Your Ref:

14 December 2017

Senior Superintendent of Police
Traffic Kowloon West
8 Wai Wan Lane
Hung Hom
Kowloon

Attn.: Mr. TSE Pui Wah

[By email: ip-sip-tig-2-t-kw@police.gov.hk
and By post]

Dear Sir,

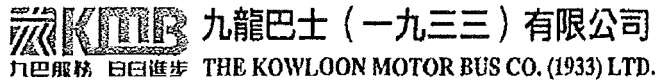
**Complaint Against Illegal Parking
inside Canton Road KMB Route No. 271 Bus Terminus
Tsim Sha Tsui, Kowloon**

It has long been a problem that illegally parked vehicles inside our bus terminus on Canton Road (outside house number 68) for Route No. 271 not only affect our bus operations, trigger very serious traffic congestion along that road, and pose imminent danger to passengers as well as other road users when our buses were intending to drive into or drive out of the terminus.

We have noticed recently that traffic conditions thereat are getting worse and worse and the number of unattended illegally parked vehicles inside the terminus is on a sharp rise. In this regard we have briefed our frontline inspectors to pay frequent visits to the terminus and to report any problems spotted.

At 1822 hours on 2017-12-8 KMB Inspector Mr. Wong Siu Ho has spotted an unattended and illegally parked vehicle inside the terminus causing serious traffic congestion thereat and posing imminent danger to passengers and other road users. Inspector Mr. Wong Siu Ho has then used his recording device/mobile phone to film the traffic violation. Attached please find a brief report furnished by Inspector Mr. Wong Siu Ho and a video clip (DVD) prepared by him/her for your reference.

File: DMS: TRF\Bus Operation\Bus Routes
File: R1.



In order to deter illegal parking problems inside bus terminus we would be extremely grateful if the Police could take follow up enforcement actions and summons the vehicle owner for illegal parking inside bus terminus accordingly. Your collaboration on this will be very much appreciated.

Should you require any further information or if you have any queries please contact me at [REDACTED] or Operations Officer, Mr Kenneth Kung, at 3 [REDACTED]

Yours faithfully,
for and on behalf of
THE KOWLOON MOTOR BUS CO. (1933) LTD.

A handwritten signature in black ink, appearing to be 'Utan Wong', is written over a horizontal line.

Utan Wong
Assistant Manager, Operations
Lai Chi Kok Depot

Encl: 1 pg & DVD

cc. Police (By email: cip-sup-t-kw@police.gov.hk & ip-sip-sup-t-kw@police.gov.hk)

日期: 10-12-2017 5121

Suki

18.1

Report on reporting illegal parking

I am currently work in the Kowloon Motor Bus Co. (1933) Ltd . My post is Inspector of District 1 . Name: [redacted] . Chinese Commercial Code: [redacted] . ID Card number: [redacted] . Date of Birth: [redacted] 30th March . Age: [redacted] . Contact: [redacted] . Contact of the office: / . Address: 15/F, 9 Po Lun Street, Lai Chi Kwok, Kowloon, Hong Kong .

I am intended to report an incident of illegal parking happened at 18:22 on 8th December 2017. It involved a private car, the registration number of which is [redacted]. On that day, the private car of registration number [redacted], without authorization, illegally parked inside the bus stop situated in 68 Canton Road, Tsim Sha Tsui, Kowloon. It severely hindered the operation of the bus and put the passengers getting on and off the bus at immediate risk. I hereby formally complain the matter to the police and hope that the police can strictly enforce the law by laying charge against the car for illegal parking to ensure the safety of all road users. I am willing to testify in court to assist the police in the legal proceeding.

I have also enclosed with this report for the investigators of the Traffic Kowloon West's reference a video clip (DVD clip) recorded by my camera. The file name of the clip is 20171208_182255.mp4. I verify that the DVD clip has not been edited and it is entirely what I have recorded on the scene.

Complainant: [redacted]

Date: 8-12-17

Follow-up (to be filled in by General Inspector or Deputy General Inspector)

Illegal Parking Report Number: LCKD-iLP.001.12-17

Staff number: [redacted]

Name of the staff: [redacted]

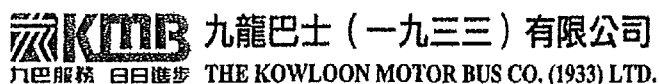
Signature: [redacted]

Date: 10-12-2017

12/12

240-6

Suki



Our Ref: LCKD/OPN/2076/17

Your Ref:

14 December 2017

Senior Superintendent of Police
Traffic Kowloon West
8 Wai Wan Lane
Hung Hom
Kowloon

Attn.: Mr. TSE Pui Wah

[By email: ip-sip-tig-2-t-kw@police.gov.hk
and By post]

Dear Sir,

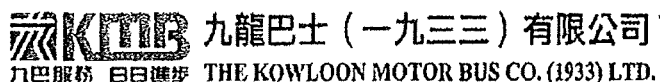
**Complaint Against Illegal Parking
inside Canton Road KMB Route No. 271 Bus Terminus
Tsim Sha Tsui, Kowloon**

It has long been a problem that illegally parked vehicles inside our bus terminus on Canton Road (outside house number 68) for Route No. 271 not only affect our bus operations, trigger very serious traffic congestion along that road, and pose imminent danger to passengers as well as other road users when our buses were intending to drive into or drive out of the terminus.

We have noticed recently that traffic conditions thereat are getting worse and worse and the number of unattended illegally parked vehicles inside the terminus is on a sharp rise. In this regard we have briefed our frontline inspectors to pay frequent visits to the terminus and to report any problems spotted.

At 1832 hours on 2017-12-8 KMB Inspector Mr. Wong Siu Ho has spotted an unattended and illegally parked vehicle inside the terminus causing serious traffic congestion thereat and posing imminent danger to passengers and other road users. Inspector Mr. Wong Siu Ho has then used his recording device/mobile phone to film the traffic violation. Attached please find a brief report furnished by Inspector Mr. Wong Siu Ho and a video clip (DVD) prepared by him/her for your reference.

File: DMS: TRF\Bus Operation\Bus Routes
File: Rt.



In order to deter illegal parking problems inside bus terminus we would be extremely grateful if the Police could take follow up enforcement actions and summons the vehicle owner for illegal parking inside bus terminus accordingly. Your collaboration on this will be very much appreciated.

Should you require any further information or if you have any queries please contact me at [REDACTED] or Operations Officer, Mr Kenneth Kung, at [REDACTED]

Yours faithfully,
for and on behalf of
THE KOWLOON MOTOR BUS CO. (1933) LTD.

A handwritten signature in black ink, appearing to read 'Utan Wong', is placed above the printed name.

Utan Wong
Assistant Manager, Operations
Lai Chi Kok Depot

Encl: 1 pg & DVD
cc. Police (By email : cip-sup-t-kw@police.gov.hk & ip-sip-sup-t-kw@police.gov.hk)

日期: 2025-12-25

18.2

Report on reporting illegal parking

I am currently work in the Kowloon Motor Bus Co. (1933) Ltd . My post is Inspector of District ____ . Name: [redacted] . Chinese Commercial Code: [redacted] . ID Card number: [redacted] . Date of Birth: [redacted] 30th March . Age: [redacted] . Contact: [redacted] . Contact of the office: / . Address: 15/F, 9 Po Lun Street, Lai Chi Kwok, Kowloon, Hong Kong .

I am intended to report an incident of illegal parking happened at 18:32 on 8th December 2017. It involved a private car, the registration number of which is [redacted]. On that day, the private car of registration number [redacted], without authorization, illegally parked inside the bus stop situated in 68 Canton Road, Tsim Sha Tsui, Kowloon. It severely hindered the operation of the bus and put the passengers getting on and off the bus at immediate risk. I hereby formally complain the matter to the police and hope that the police can strictly enforce the law by laying charge against the car for illegal parking to ensure the safety of all road users. I am willing to testify in court to assist the police in the legal proceeding.

I have also enclosed with this report for the investigators of the Traffic Kowloon West's reference a video clip (DVD clip) recorded by my camera. The file name of the clip is 20171208_183257.mp4. I verify that the DVD clip has not been edited and it is entirely what I have recorded on the scene.

Complainant: [redacted]

Date: 8-12-17

Follow-up (to be filled in by General Inspector or Deputy General Inspector)

Illegal Parking Report Number: LCKD-ILP.003-12.17

Staff number: [redacted]

Name of the staff: [redacted]

Signature: [redacted]

Date: 10-12-2017

2017年12月8日
12/12

250-6

Suki

5126

本署檔號 OUR REF: LM (18) in KW YT 234/1/1 PL14
來函檔號 YOUR REF: LCKD/OPN/2076/17
電話 TELEPHONE: 3661 9527
圖文傳真 FAX: 2770 3597



HONG KONG POLICE
Yau Tsim Police District
Yau Ma Tei Police Station
No.3 Yau Cheung Road

10th January 2018

Mr. Utan WONG
Assistant Manager, Operations,
Lai Chi Kok Depot,
The Kowloon Motor Bus CO. (1933) LTD.
No.9 Po Lun Street,
Lai Chi Kok,
Kowloon, Hong Kong

(By Fax 2745 0300)

Dear Mr. WONG,

**Re: Complaint Against Illegal Parking inside Canton Road KMB Route,
No.271 Bus Terminus, Tsim Sha Tsui, Kowloon**

Thank you for your letter dated 14th December 2017. Your complaint have been referred from Traffic Kowloon West to our unit, District Traffic Team of Yau Tsim District, for follow up action.

Upon receipt of your complaint, we have stepped up our traffic enforcement actions at the captioned location. With a view to improving the situation, we will continue to conduct appropriate traffic enforcement action against offending vehicles.

If you have any enquiries, please contact Mr. YIP Chi-sum, Officer-in-charge of the Yau Tsim District Traffic Team at 3661 9525.

Yours sincerely,


(SUN Yau-yum)

for Commissioner of Police

c.c. OC TIG TKW

本署檔號 OUR REF : LM (18) in KW YF 234/1/1 Pt.14
來函檔號 YOUR REF : LCKDYOPN/2076/17
電話 TELEPHONE : 3661 9527
圖文傳真 FAX : 2770 3597



HONG KONG POLICE
Yau Tsim Police District
Yau Ma Tei Police Station
No.3 Yau Cheung Road

10th January 2018

Mr. Utan WONG
Assistant Manager, Operations,
Lai Chi Kok Depot,
The Kowloon Motor Bus CO. (1933) LTD.
No.9 Po Lun Street,
Lai Chi Kok,
Kowloon, Hong Kong

(By Fax 2745 0300)

Dear Mr. WONG,

**Re: Complaint Against Illegal Parking inside Canton Road KMB Route,
No.271 Bus Terminus, Tsim Sha Tsui, Kowloon**

Thank you for your letter dated 14th December 2017. Your complaint have been referred from Traffic Kowloon West to our unit, District Traffic Team of Yau Tsim District, for follow up action.

Upon receipt of your complaint, we have stepped up our traffic enforcement actions at the captioned location. With a view to improving the situation, we will continue to conduct appropriate traffic enforcement action against offending vehicles.

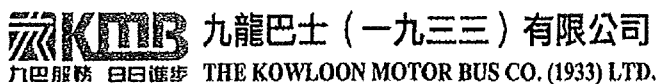
If you have any enquiries, please contact Mr. YIP Chi-sum, Officer-in-charge of the Yau Tsim District Traffic Team at 3661 9525.

Yours sincerely,

(SUN Lun-yum)

for Commissioner of Police

c.c. OC TIG TKW



Our Ref. : LCKD/OPN/292/18
Your Ref. :

27 February 2018

Senior Superintendent of Police
Traffic Kowloon West
8 Wai Wan Lane, Hung Hom, Kowloon

Attn.: Mr. TSE Pui Wah

[By email: ip-sip-tig-2-t-kw@police.gov.hk and
By post]

Dear Sir,


**Complaint Against Illegal Parking
inside Canton Road KMB Route No. 271 Bus Terminus
Tsim Sha Tsui, Kowloon**

It has long been a problem that illegally parked vehicles inside our bus terminus on Canton Road (outside house number 68) for Route No. 271 not only affect our bus operations, trigger very serious traffic congestion along that road, and pose imminent danger to passengers as well as other road users when our buses were intending to drive into or drive out of the terminus.

We have noticed recently that traffic conditions thereat are getting worse and worse and the number of unattended illegally parked vehicles inside the terminus is on a sharp rise. In this regard we have briefed our frontline inspectors to pay frequent visits to the terminus and to report any problems spotted.

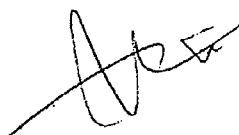
At 2050 hours on 2018-2-10 KMB Inspector Mr. Ip Chun Wing has spotted an unattended and illegally parked vehicle inside the terminus causing serious traffic congestion thereat and posing imminent danger to passengers and other road users. Inspector Mr. Ip Chun Wing has then used his recording device/mobile phone to film the traffic violation. Attached please find a brief report furnished by Inspector Mr. Ip Chun Wing and a video clip (DVD) prepared by him/her for your reference.

In order to deter illegal parking problems inside bus terminus we would be extremely grateful if the Police could take follow up enforcement actions and summons the vehicle owner for illegal parking inside bus terminus accordingly. Your collaboration on this will be very much appreciated.

 九龍巴士（一九三三）有限公司
九巴服務 日日進步 THE KOWLOON MOTOR BUS CO. (1933) LTD.

Should you require any further information or if you have any queries please
contact me at [REDACTED] or Operations Officer, Mr Kenneth Kung, at [REDACTED]

Yours faithfully,
for and on behalf of
THE KOWLOON MOTOR BUS CO. (1933) LTD.



Utan Wong
Assistant Manager, Operations
Lai Chi Kok Depot

Encl.

cc. cip-sup-t-kw@police.gov.hk
cc. ip-sip-sup-t-kw@police.gov.hk
cc. adoo-ytdist@police.gov.hk

舉報違泊報告書

本人現職於九龍巴士(一九三三)有限公司，職級為區車務督察，姓名：[REDACTED]，中文電碼：[REDACTED]

身份證明文件號碼：[REDACTED]，出生日期：[REDACTED]年12月19日，年歲：[REDACTED]

聯絡電話：[REDACTED] / 公司電話：[REDACTED]，地址：香港九龍荔枝角寶輪街九號十五樓。

現擬舉報一宗發生於2018年02月10日20:50時的交通違例泊車事件。

當中牽涉一輛的士車，車牌為[REDACTED]。當日該的士車，車牌[REDACTED]，未經授權違例停泊於

九龍尖沙咀廣東道 68 號巴士站內，嚴重阻礙巴士正常運作，亦對上落巴士的乘客構成即時危險。本人現正式

作出投訴並希望警方能嚴正執法，檢控該違泊車輛以確保所有道路使用者的安全。本人亦願意在有需要時出庭

作証，協助警方提出訴訟。

本人亦隨同此份報告，附上一張當日由本人攝錄機拍得的錄影片段(DVD 片段)，片段檔案名稱：V10-20180210-WA0027

以供西九龍交通部調查人員參考。本人證實該 DVD 片段並無任何刪剪，亦為現場所攝錄到的全部。

報告人簽署：[REDACTED]

日期：11/02/18

跟進事項(由區長或副區長填寫)

違泊報告編號：LCKD-ILP-004-02-18

職員編號：[REDACTED]

職員姓名：[REDACTED]

簽署：[REDACTED]

日期：11-2-2018

23158 Brian Yeung 21 FEB 2018

5131

18.4

Report on reporting illegal parking

I am currently work in the Kowloon Motor Bus Co. (1933) Ltd . My post is Inspector of District 1 . Name: [redacted] . Chinese Commercial Code: [redacted] . ID Card number: [redacted] . Date of Birth: [redacted] 19th December . Age: [redacted] . Contact: [redacted] . Contact of the office: / . Address: 15/F, 9 Po Lun Street, Lai Chi Kwok, Kowloon, Hong Kong .

I am intended to report an incident of illegal parking happened at 20:50 on 10th February 2018. It involved a taxi, the registration number of which is [redacted]. On that day, the taxi of registration number [redacted], without authorization, illegally parked inside the bus stop situated in 68 Canton Road, Tsim Sha Tsui, Kowloon. It severely hindered the operation of the bus and put the passengers getting on and off the bus at immediate risk. I hereby formally complain the matter to the police and hope that the police can strictly enforce the law by laying charge against the car for illegal parking to ensure the safety of all road users. I am willing to testify in court to assist the police in the legal proceeding.

I have also enclosed with this report for the investigators of the Traffic Kowloon West's reference a video clip (DVD clip) recorded by my camera. The file name of the clip is VID-20180210-WA0087. I verify that the DVD clip has not been edited and it is entirely what I have recorded on the scene.

Complainant: [redacted]

Date: 11/02/18

Follow-up (to be filled in by General Inspector or Deputy General Inspector)

Illegal Parking Report Number: LCKD-ILP-004-02-18

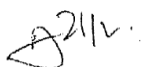
Staff number: [redacted]

Name of the staff: [redacted]

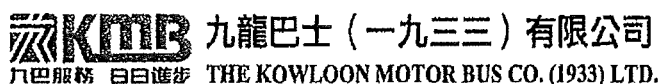
Signature: [redacted]

Date: 11-2-2018

23158 Brian Yeung 21 FEB 2018



5132



Our Ref. : LCKD/OPN/293/18
Your Ref. :

27 February 2018

Senior Superintendent of Police
Traffic Kowloon West
8 Wai Wan Lane, Hung Hom, Kowloon

Attn.: Mr. TSE Pui Wah

[By email: ip-sip-tig-2-t-kw@police.gov.hk and
By post]

Dear Sir,


**Complaint Against Illegal Parking
inside Canton Road KMB Route No. 271 Bus Terminus
Tsim Sha Tsui, Kowloon**

It has long been a problem that illegally parked vehicles inside our bus terminus on Canton Road (outside house number 68) for Route No. 271 not only affect our bus operations, trigger very serious traffic congestion along that road, and pose imminent danger to passengers as well as other road users when our buses were intending to drive into or drive out of the terminus.

We have noticed recently that traffic conditions thereat are getting worse and worse and the number of unattended illegally parked vehicles inside the terminus is on a sharp rise. In this regard we have briefed our frontline inspectors to pay frequent visits to the terminus and to report any problems spotted.

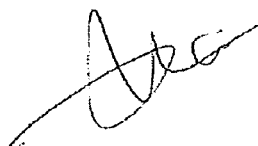
At 2052 hours on 2018-2-10 KMB Inspector Mr. Ip Chun Wing has spotted an unattended and illegally parked vehicle inside the terminus causing serious traffic congestion thereat and posing imminent danger to passengers and other road users. Inspector Mr. Ip Chun Wing has then used his recording device/mobile phone to film the traffic violation. Attached please find a brief report furnished by Inspector Mr. Ip Chun Wing and a video clip (DVD) prepared by him/her for your reference.

In order to deter illegal parking problems inside bus terminus we would be extremely grateful if the Police could take follow up enforcement actions and summons the vehicle owner for illegal parking inside bus terminus accordingly. Your collaboration on this will be very much appreciated.

 九龍巴士（一九三三）有限公司
九巴服務 日白進步 THE KOWLOON MOTOR BUS CO. (1933) LTD.

Should you require any further information or if you have any queries please contact me at [REDACTED] or Operations Officer, Mr Kenneth Kung, at [REDACTED]

Yours faithfully,
for and on behalf of
THE KOWLOON MOTOR BUS CO. (1933) LTD.



Utan Wong
Assistant Manager, Operations
Lai Chi Kok Depot

Encl.

cc. cip-sup-t-kw@police.gov.hk
cc. ip-sip-sup-t-kw@police.gov.hk
cc. adoo-ytdist@police.gov.hk

舉報違泊報告書

本人現職於九龍巴士(一九三三)有限公司，職級為區車務督察，姓名：[REDACTED] 中文電碼：[REDACTED]

身份證明文件號碼：[REDACTED]，出生日期：[REDACTED] 年 12 月 18 日，年歲：[REDACTED]

聯絡電話：[REDACTED] / 公司電話：[REDACTED]，地址：香港九龍荔枝角寶輪街九號十五樓。

現擬舉報一宗發生於2018 年 02 月 10 日 20:42 時的交通違例泊車事件，

當中牽涉一輛 的士 車，車牌為 [REDACTED]，當日該 的士 車，車牌 [REDACTED] 未經授權違例停泊於

九龍尖沙咀廣東道 68 號巴士站內，嚴重阻礙巴士正常運作，亦對上落巴士的乘客構成即時危險。本人現正式

作出投訴並希望警方能嚴正執法，檢控該違泊車輛以確保所有道路使用者的安全。本人亦願意在有需要時出庭

作証，協助警方提出訴訟。

本人亦隨同此份報告，附上一張當日由本人攝錄機拍得的錄影片段(DVD 片段)，片段檔案名稱：VID-20180210-WA0012

以供西九龍交通部調查人員參考。本人證實該 DVD 片段並無任何刪剪，亦為現場所攝錄到的全部。

報告人簽署：[REDACTED]

日期：11/02/18

跟進事項(由區長或副區長填寫)

違泊報告編號：LCKD-ILP-005-02-18

職員編號：[REDACTED]

職員姓名：[REDACTED]

簽署：[REDACTED]

日期：11-2-2018

23158 Brian Yeung 21 FEB 2018

11/2

5135

18.5

Report on reporting illegal parking

I am currently work in the Kowloon Motor Bus Co. (1933) Ltd . My post is Inspector of District 1 . Name: [redacted] . Chinese Commercial Code: [redacted] . ID Card number: [redacted] . Date of Birth: [redacted] 19th December . Age: [redacted] . Contact: [redacted] . Contact of the office: / . Address: 15/F, 9 Po Lun Street, Lai Chi Kwok, Kowloon, Hong Kong .

I am intended to report an incident of illegal parking happened at 20:52 on 10th February 2018. It involved a taxi, the registration number of which is [redacted]. On that day, the taxi of registration number [redacted], without authorization, illegally parked inside the bus stop situated in 68 Canton Road, Tsim Sha Tsui, Kowloon. It severely hindered the operation of the bus and put the passengers getting on and off the bus at immediate risk. I hereby formally complain the matter to the police and hope that the police can strictly enforce the law by laying charge against the car for illegal parking to ensure the safety of all road users. I am willing to testify in court to assist the police in the legal proceeding.

I have also enclosed with this report for the investigators of the Traffic Kowloon West's reference a video clip (DVD clip) recorded by my camera. The file name of the clip is VID-20180210-WA0012. I verify that the DVD clip has not been edited and it is entirely what I have recorded on the scene.

Complainant: [redacted]

Date: 11/02/18

Follow-up (to be filled in by General Inspector or Deputy General Inspector)

Illegal Parking Report Number: LCKD-ILP-005-02-18

Staff number: [redacted]


Name of the staff: [redacted]

Signature: [redacted]

Date: 11-2-2018

23158 Brian Yeung 21 FEB 2018



 九龍巴士（一九三三）有限公司
九巴服務 日白進步 THE KOWLOON MOTOR BUS CO. (1933) LTD.

Our Ref. : LCKD/OPN/1120/18
Your Ref. :

28 June 2018

Senior Superintendent of Police
Traffic Kowloon West
8 Wai Wan Lane, Hung Hom, Kowloon

Attn.: Mr. TSE Pui Wah

[By email: ip-sip-tig-2-t-kw@police.gov.hk and By post]

Dear Sir,

**Complaint against Illegal Parking
outside Jordan Road (Eastbound) House no. 23-29
Jordan, Kowloon**

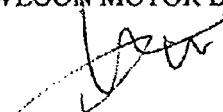
As reflected by our outdoor staff, illegal parking was found outside Jordan Road (Eastbound) House no. 23-29, which is not only affect our bus operations, trigger very serious traffic congestion along that road, and pose imminent danger to passengers as well as other road users when our buses were intending to drive into or drive out of the terminus.

At 2230 hours on 2018-6-6 KMB Inspector Mr. Law Lap Yan has spotted an unattended and illegally parked vehicle at the above located causing serious traffic congestion thereat and posing imminent danger to passengers and other road users. Inspector Mr. Law Lap Yan has then used his recording device/mobile phone to film the traffic violation. Attached please find a brief report furnished by Inspector Mr. Law Lap Yan and a video clip (DVD) prepared by him/her for your reference.

In order to deter illegal parking problems inside bus terminus we would be extremely grateful if the Police could take follow up enforcement actions and summons the vehicle owner for illegal parking accordingly. Your collaboration on this will be very much appreciated.

Should you require any further information or if you have any queries please contact me at [REDACTED] or Operations Officer, Mr Kenneth Kung, at [REDACTED]

Yours faithfully,
for and on behalf of
THE KOWLOON MOTOR BUS CO. (1933) LTD.


Utan Wong
Assistant Manager, Operations
Lai Chi Kok Depot

Encl.

cc. cip-sup-t-kw@police.gov.hk & ip-sip-sup-t-kw@police.gov.hk & aduo-ytdist@police.gov.hk

舉報違泊報告書

本人現職於九龍巴士(一九三三)有限公司，職級為一區車務督察，姓名 [REDACTED]，中文電碼 [REDACTED]。

身份證明文件號碼 [REDACTED] 出生日期 [REDACTED] 年 1 月 29 日，年歲：[REDACTED]

聯絡電話 [REDACTED] / 公司電話：[REDACTED] 地址：香港九龍荔枝角寶輪街九號十五樓。

現擬舉報一宗發生於 2018 年 6 月 6 日 22:30 時的交通違例泊車事件，

當中牽涉一輛 貨 車，車牌為 [REDACTED]，當日該 貨 車，車牌 [REDACTED] 未經授權違例停泊於

佐敦道東行23-29號對出，嚴重阻礙巴士正常運作，亦對上落巴士的乘客構成即時危險。本人現正式作出投訴並希望警方能嚴正執法，檢控該違泊車輛以確保所有道路使用者的安全。本人亦願意在有需要時出庭作証，協助警方提出訴訟。

本人亦隨同此份報告，附上一張當日由本人攝錄機拍得的錄影片段(DVD 片段)，片段檔案名稱：20180606_2229159 mp4

以供西九龍交通部調查人員參考。本人證實該 DVD 片段並無任何刪剪，亦為現場所攝錄到的全部。

報告人簽署：[REDACTED]

日期：6/6/18

跟進事項(由區長或副區長填寫)

違泊報告編號：1CKP-11P-010-06-18

職員編號：[REDACTED]

職員姓名：[REDACTED]

簽署：[REDACTED]

日期：06-06-18

5138

18.6

Report on reporting illegal parking

I am currently work in the Kowloon Motor Bus Co. (1933) Ltd . My post is Inspector of District 1 . Name: [redacted] . Chinese Commercial Code: [redacted] . ID Card number: [redacted] . Date of Birth: [redacted] 29th January . Age: [redacted] . Contact: [redacted] . Contact of the office: / . Address: 15/F, 9 Po Lun Street, Lai Chi Kwok, Kowloon, Hong Kong .

I am intended to report an incident of illegal parking happened at 22:30 on 6th June 2018. It involved a truck, the registration number of which is [redacted]. On that day, the truck of registration number [redacted], without authorization, illegally parked opposite to 23-29 Jordon Road Eastbound. It severely hindered the operation of the bus and put the passengers getting on and off the bus at immediate risk. I hereby formally complain the matter to the police and hope that the police can strictly enforce the law by laying charge against the car for illegal parking to ensure the safety of all road users. I am willing to testify in court to assist the police in the legal proceeding.

I have also enclosed with this report for the investigators of the Traffic Kowloon West's reference a video clip (DVD clip) recorded by my camera. The file name of the clip is 20180606_222959.mp4. I verify that the DVD clip has not been edited and it is entirely what I have recorded on the scene.

Complainant: [redacted]

Date: 6/6/18

Follow-up (to be filled in by General Inspector or Deputy General Inspector)

Illegal Parking Report Number: LCKD-ILP-010-06-18

Staff number: [redacted]

Name of the staff: [redacted]

Signature: [redacted]

Date: 06.06.18



寄件者: courtneychung@police.gov.hk
寄件日期: 2018年8月14日 星期二 12:05
收件者: Patrick Pang DOD
主旨: Re: Illegal parking on Canton Road Bus Terminus

18.7

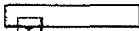
Regards

Chung Hung Yip Courtney
Superintendent
Enforcement and Control Division
Kowloon West Region

Tel: 
Fax: 

*** This e-mail message (together with any attachments) is for the designated recipient only. It may contain information that is privileged. If you are not the intended recipient, you are hereby notified that any use, retention, disclosure, copying, printing, forwarding or dissemination of the message is strictly prohibited. If you have received the message in error, please erase all copies of the message (including attachments) from your system and notify the sender immediately. ***

*** 此電郵訊息(連同任何附件)只發送給指定收件人。訊息可能包含享有特權資料。謹此通知，如你並非預定收件人，嚴禁使用、保留、披露、複製、列印、轉發或發布此訊息。如收到誤發的訊息，請把訊息的所有副本(包括附件)從系統內清除，並立即通知發件人。***


Patrick Pang LCK
<patrick.pang@kmb.hk>
2017-11-15 13:03

To: "sp-e-c-kw@police.gov.hk" <sp-e-c-kw@police.gov.hk>
Cc:
Subject: Illegal parking on Canton Road Bus Terminus

Reference:

Dear Courtney,

Many thanks for the efforts by the Police.

We will arrange to video tape the parking of unauthorized vehicles inside the bus terminus and thereafter send the tape to T KW for processing.

Very much appreciated.

Patrick

Transport International Holdings Limited E-mail Disclaimer

This e-mail may contain confidential, proprietary or legally privileged information and is intended for the attention and use of the addressee(s) only. If you are not the intended recipient of this message, you must not copy, use or disclose any part of its contents. Please notify the sender immediately and delete this message from your system.

The Transport International Holdings Limited and each of its affiliates and the sender of this message shall not be responsible or liable for any errors or omissions in the contents of this message as secure or error free e-mail transmission cannot be guaranteed. Information sent via e-mail could arrive late or contain viruses or be intercepted, corrupted, lost, destroyed, or incomplete. Unless otherwise stated, any information given in this message is indicative only and is subject to our formal written confirmation. [attachment "Illegal Parking located at Canton Road.docx" deleted by sp-e-c-kw/T-KW/STATION/POLICE/HKSARG] [attachment "IMG-20171115-WA0001.jpg" deleted by sp-e-c-kw/T-KW/STATION/POLICE/HKSARG] [attachment "IMG-20171115-WA0002.jpg" deleted by sp-e-c-kw/T-KW/STATION/POLICE/HKSARG] [attachment "IMG-20171115-WA0003.jpg" deleted by sp-e-c-kw/T-KW/STATION/POLICE/HKSARG] [attachment "IMG-20171115-WA0004.jpg" deleted by sp-e-c-kw/T-KW/STATION/POLICE/HKSARG] [attachment "IMG-20171115-WA0005.jpg" deleted by sp-e-c-kw/T-KW/STATION/POLICE/HKSARG]

寄件者: Wing Chun Kung LCK
寄件日期: 2017年11月14日星期二 12:50
收件者: Patrick Pang LCK
副本: Utan Wong LCK; wingyin.yeung@kmb.hk
主旨: FW: 271 BT pole installation status
附件: 271 BT current status.jpg; 271 BT current status 2.jpg; Suggestion 1.jpg; Suggestion 2.jpg

Dear Pang Sir,


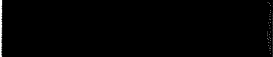
After reviewing current operation situation at Rt. 271 Canton Road Bus terminus that is hindered by illegal parking, possible measures can be taken as in short to long term. Details shown as below:

1. Deploy an extra pole at the end of the BT with signs and notices on the both side; 巴士總站 on one side/嚴禁泊車 on the other.
That would alert member of public that a BT is situated in the area even when illegal parking vehicles do park and cover up the road markings of bus stop
2. Extend and refurbish existing queuing markings to once again alert M/P where BT is situated.
3. Installation of permanent pole adjacent to boarding point.
with such arrangement, ad. Box and further notice can be deployed upon the pole.

Please kindly comment and such arrangement can be taken swiftly.

In the meantime, I instructed the inspectorate team to closely monitor the situation.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 
Fax: 

From: Kam Tong Tang SER
Sent: Tuesday, November 14, 2017 11:34 AM
To: Tak Ching Cheng CFM; Jacky Ng CFM
Cc: Wing Chun Kung LCK; Tin Fong Lau SER; Kwai Wa Lee SER
Subject: FW: 271 BT pole installation status

阿靜；

因應車務要求，請安排儘快安裝種地站柱。謝謝。

From: Wing Chun Kung LCK
Sent: Tuesday, November 14, 2017 11:28 AM
To: Kam Tong Tang SER
Cc: Utan Wong LCK; Wing Yin Yeung LCK; Patrick Pang LCK
Subject: 271 BT pole installation status



Dear Tong,

18.8

As spoken before, JRF of pole installation on the captioned BT has been sent to CFMD. As illegal parking at Canton road hinders bus operation, installation would indeed post a clear message to member of public where BT is. Please kindly update the preparation status and take such action asap.

Please see attached picture for your reference.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 
Fax: 



18.8

5144





18.8

2

加長及翻新排隊地線
翻新巴士地"嘜"

5146



③ 裝上種地
站柱位置

Wing Chun Kung LCK

18.8

From: Wing Chun Kung LCK
Sent: 2017年11月14日Tuesday 12:50
To: Patrick Pang LCK
C.c.: Utan Wong LCK; wingyin.yeung@kmb.hk
Subject: FW: 271 BT pole installation status
Attachment: 271 BT current status.jpg; 271 BT current status 2.jpg; Suggestion 1.jpg; Suggestion 2.jpg

Dear Pang Sir,


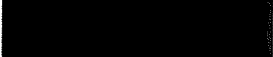
After reviewing current operation situation at Rt. 271 Canton Road Bus terminus that is hindered by illegal parking, possible measures can be taken as in short to long term. Details shown as below:

1. Deploy an extra pole at the end of the BT with signs and notices on the both side; Bus Terminus on one side/No Parking on the other.
That would alert member of public that a BT is situated in the area even when illegal parking vehicles do park and cover up the road markings of bus stop
2. Extend and refurbish existing queuing markings to once again alert M/P where BT is situated.
3. Installation of permanent pole adjacent to boarding point.
with such arrangement, ad. Box and further notice can be deployed upon the pole.

Please kindly comment and such arrangement can be taken swiftly.

In the meantime, I instructed the inspectorate team to closely monitor the situation.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 
Fax: 

From: Kam Tong Tang SER
Sent: Tuesday, November 14, 2017 11:34 AM
To: Tak Ching Cheng CFM; Jacky Ng CFM
Cc: Wing Chun Kung LCK; Tin Fong Lau SER; Kwai Wa Lee SER
Subject: FW: 271 BT pole installation status

Ar Ching:

According to the request from the Operations Unit, please arrange immediately the installation of stands affixed onto the ground. Thank you.

From: Wing Chun Kung LCK
Sent: Tuesday, November 14, 2017 11:28 AM
To: Kam Tong Tang SER
Cc: Utan Wong LCK; Wing Yin Yeung LCK; Patrick Pang LCK
Subject: 271 BT pole installation status

This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.
本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。



Dear Tong,

18.8

As spoken before, JRF of pole installation on the captioned BT has been sent to CFMD. As illegal parking at Canton road hinders bus operation, installation would indeed post a clear message to member of public where BT is. Please kindly update the preparation status and take such action asap.

Please see attached picture for your reference.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 
Fax: 

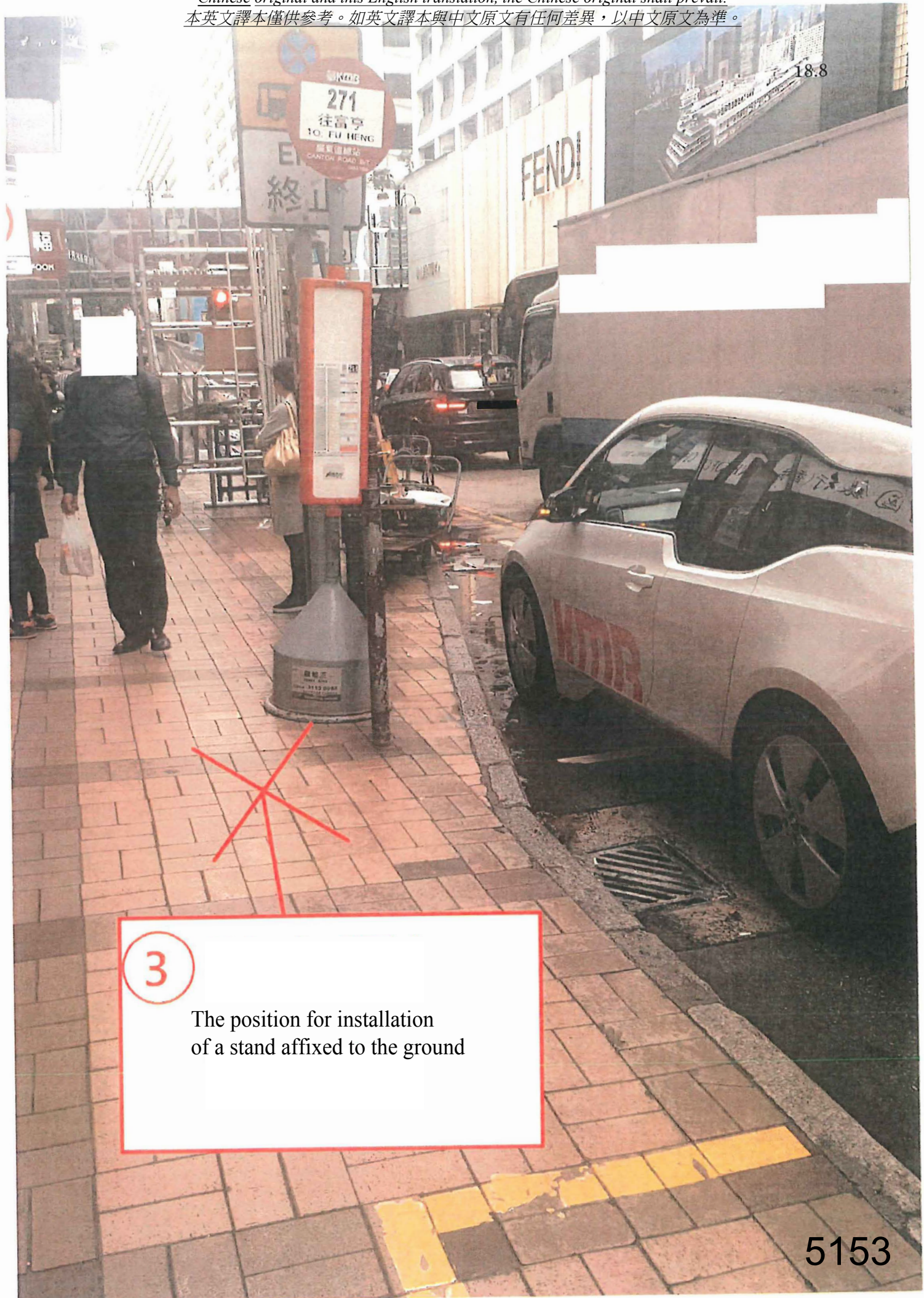




18.8

5151





3



The position for installation
of a stand affixed to the ground

寄件者: Wing Chun Kung LCK
寄件日期: 2017年11月15日星期三 8:34
收件者: Patrick Pang LCK
副本: Utan Wong LCK; wingyin.yeung@kmb.hk
主旨: Illegal parking at Canton Road
附件: Illegal Parking located at Canton Road.docx; IMG-20171115-WA0001.jpg; IMG-20171115-WA0002.jpg; IMG-20171115-WA0003.jpg; IMG-20171115-WA0004.jpg; IMG-20171115-WA0005.jpg

Dear Pang Sir,

Please see attached files upon your request.

Best Regards

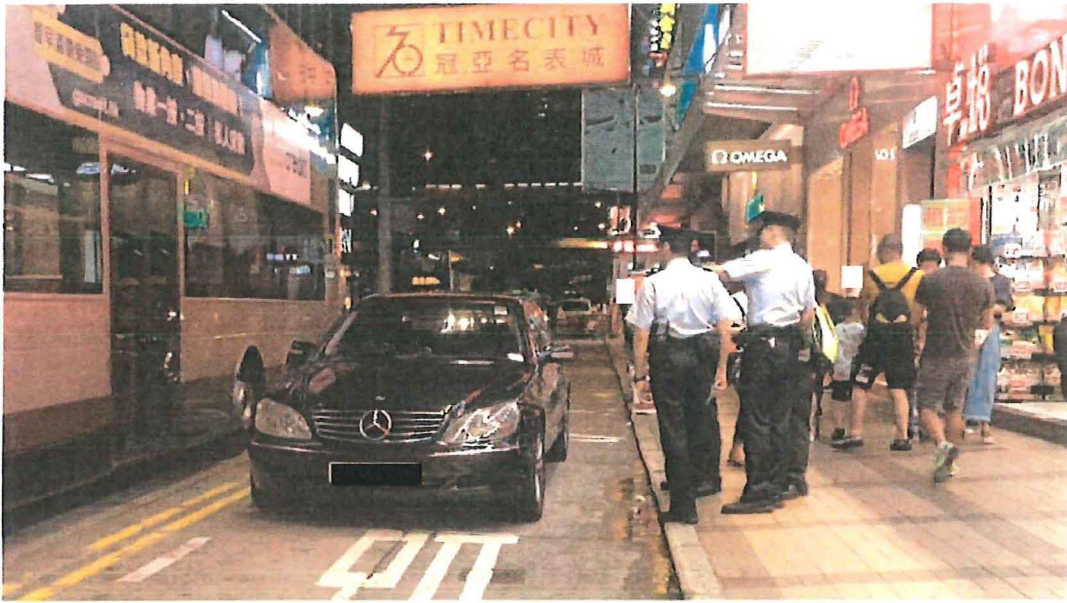
Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 
Fax: 

Illegal Parking located at Rt.271 Canton Road Bus terminus

1. Vehicle parked inside designated bus bay



2. Vehicles parked inside designated bus bay which buses had to cut into its own parking slot dangerously. (with law enforcement) 18.9



3. Illegal parking (with law enforcement.)

18.9



5157

4. Illegal parking trucks that even escalated the danger whilst buses cut into their own parking slot.
18.9



寄件者: Patrick Pang LCK
寄件日期: 2017年11月15日星期三 13:19
收件者: Kin Wang Leung OD
副本: Godwin So CPD; Gary Leung CFM; Utan Wong LCK; Wang Cheong Leung LCK; Debby Wong LCK; Wing Chun Kung LCK; Wing Yin Yeung LCK; Henry Leung LGD; Jason Lau LGD
主旨: Stepping Up of Police Enforcement Action - BT on Canton Road, TST
附件: Illegal Parking located at Canton Road.docx; IMG-20171115-WA0001.jpg; IMG-20171115-WA0002.jpg; IMG-20171115-WA0003.jpg; IMG-20171115-WA0004.jpg; IMG-20171115-WA0005.jpg

Good Afternoon Wang Gor,

We spoke.

In addition to the enforcement actions currently taken by the Police I have again touched base with Traffic Kowloon West and we both conceded that the illegally parked vehicles inside our BT on Canton Road for Route 271 not only affect our bus operations but trigger serious traffic congestion along that road.

It has been agreed to take Canton Road BT as a trial in that we will arrange our frontline duties to video tape those illegally parked vehicles inside our BT and thereafter send the tape to the Police with specified date/time and the name of the staff who shoots the video clip. As there is a likelihood for our staff to furnish a statement at a later stage we will prepare a standardized template for our staff to follow.

Upon the successful prosecutions of the drivers involved we will then arrange some sort of 'unofficial publicity' by our means to widely spread the message with a view to deter those habitual offenders, not only on Canton Road BT but on other BT.

If this turns out to be successful we could then take unauthorized vehicles using the bus lane as a second trial.

I will keep you abreast of the progress.

Thank you.

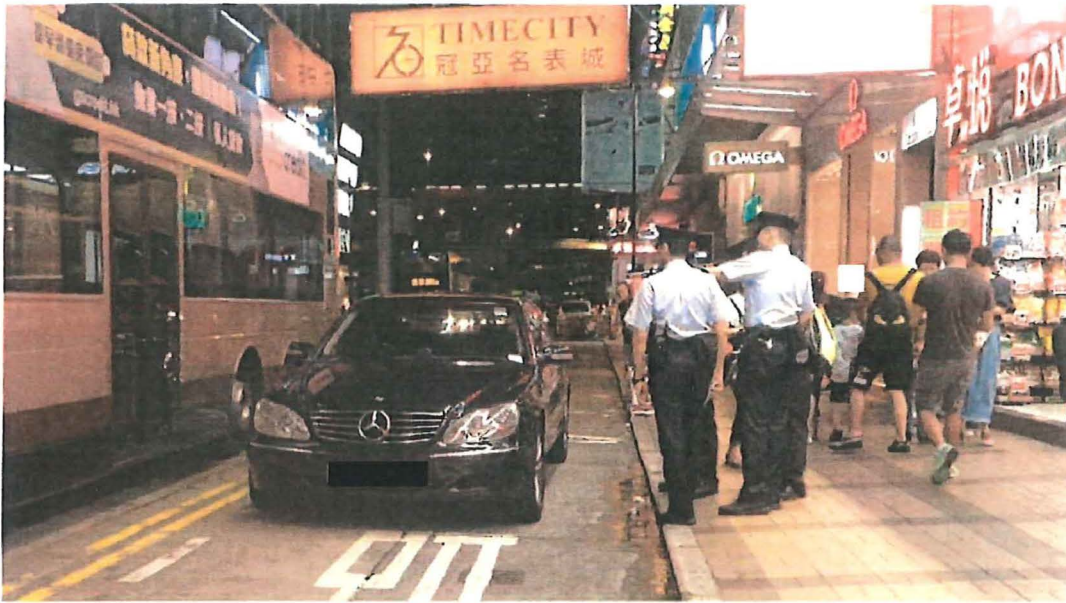
Patrick

Illegal Parking located at Rt.271 Canton Road Bus terminus.10

1. Vehicle parked inside designated bus bay



2. Vehicles parked inside designated bus bay which buses had to cut into its own parking slot dangerously. (with law enforcement) 18.10



3. Illegal parking (with law enforcement.)

18.10



4. Illegal parking trucks that even escalated the danger whilst buses cut into their own parking slot. 18.10





寄件者: Wing Chun Kung LCK
寄件日期: 2017年11月20日星期一 20:16
收件者: Patrick Pang LCK
副本: Utan Wong LCK; wingyin.yeung@kmb.hk
主旨: FW: Illegal parking at Canton Road
附件: 擬訂車務督察以錄影片段舉報違泊報告書工作程序.pptx; 車務督察以錄影片段舉報違泊報告書.docx; 車務督察以錄影片段舉報違泊報告紀錄.xlsx

Dear Sir,

Sorry for mistaken. Attachments are as attached correctly.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 
Fax: 

From: Wing Chun Kung LCK
Sent: Monday, November 20, 2017 7:17 PM
To: Patrick Pang LCK
Cc: Utan Wong LCK; wingyin.yeung@kmb.hk
Subject: RE: Illegal parking at Canton Road

Dear Pang Sir,

I have instructed the inspectorate team to carry out inspection on illegal parking and videotaped last week accordingly.

I also drafted a report regarding on the matter and took reference with the template given from your previous mail.

I now attach the following files for your endorsement

1. 擬訂車務督察以錄影片段舉報違泊報告書工作程序
2. 舉報違泊報告書
3. 車務督察以錄影片段舉報違泊報告紀錄

Once the above protocol is confirmed, initiate case can be drafted and refer to Police Force in no time.
Your precious comment would be very much appreciated.

Best Regards

Kenneth Kung
Operations Officer - Zone 1

Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: [REDACTED]
Fax: [REDACTED]

18.11

From: Patrick Pang LCK
Sent: Monday, November 20, 2017 2:57 PM
To: Wing Chun Kung LCK
Subject: RE: Illegal parking at Canton Road

Dear Chun,

Attached is the statement sample. Just follow more or less is OK.

Patrick

From: Wing Chun Kung LCK
Sent: Wednesday, November 15, 2017 8:34 AM
To: Patrick Pang LCK
Cc: Utan Wong LCK; Wing Yin Yeung LCK
Subject: Illegal parking at Canton Road

Dear Pang Sir,

Please see attached files upon your request.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: [REDACTED]
Fax: [REDACTED]

Wing Chun Kung LCK



18.11

From: Wing Chun Kung LCK
Sent: 2017年11月20日 Monday 20:16
To: Patrick Pang LCK
C.c.: Utan Wong LCK; wingyin.yeung@kmb.hk
Subject: FW: Illegal parking at Canton Road
Attachment: Draft Work Procedure for reporting illegal parking by inspectors using video clips.pptx; Report on reporting illegal parking.docx; Record of inspectors reporting illegal parking using video clips.xlsx

Dear Sir,

Sorry for mistaken. Attachments are as attached correctly.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 
Fax: 

From: Wing Chun Kung LCK
Sent: Monday, November 20, 2017 7:17 PM
To: Patrick Pang LCK
Cc: Utan Wong LCK; wingyin.yeung@kmb.hk
Subject: RE: Illegal parking at Canton Road

Dear Pang Sir,

I have instructed the inspectorate team to carry out inspection on illegal parking and videotaped last week accordingly.

I also drafted a report regarding on the matter and took reference with the template given from your previous mail.

I now attach the following files for your endorsement

1. Draft Work Procedure for reporting illegal parking by inspectors using video clips
2. Report on reporting illegal parking
3. Record of inspectors reporting illegal parking using video clips

Once the above protocol is confirmed, initiate case can be drafted and refer to Police Force in no time.
Your precious comment would be very much appreciated.

Best Regards

Kenneth Kung
Operations Officer - Zone 1

Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: [REDACTED]
Fax: [REDACTED]

18.11

From: Patrick Pang LCK
Sent: Monday, November 20, 2017 2:57 PM
To: Wing Chun Kung LCK
Subject: RE: Illegal parking at Canton Road

Dear Chun,

Attached is the statement sample. Just follow more or less is OK.

Patrick

From: Wing Chun Kung LCK
Sent: Wednesday, November 15, 2017 8:34 AM
To: Patrick Pang LCK
Cc: Utan Wong LCK; Wing Yin Yeung LCK
Subject: Illegal parking at Canton Road

Dear Pang Sir,

Please see attached files upon your request.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: [REDACTED]
Fax: [REDACTED]

寄件者: Wing Chun Kung LCK
寄件日期: 2017年11月23日星期四 10:58
收件者: Patrick Pang LCK
副本: Utan Wong LCK; wingyin.yeung@kmb.hk
主旨: RE: 271 BT pole installation status
附件: IMG-20171121-WA0009.jpg; IMG-20171120-WA0006.jpg; IMG-20171120-WA0003.jpg; IMG-20171120-WA0002.jpg

Dear Pang Sir,

For your updated information, permanent bus stop pole JRF has been sent and still pending for CFMD action.

Still, other discussed measures were taken as to alert member of public that a BT is situated in the area.

1. Deploy an extra pole at the end of the BT with signs and notices- Completed
2. Extend and refurbish existing queuing markings – Completed
3. Installation of permanent pole- Pending for CFMD action

Also, reported by inspectors and frontline staff, illegal parking inside the bus bay reduced significantly after such arrangement.

The traffic situation would still be closely monitored. Please see attached photos for your reference.

p.s. refurbishment of bus stop road markings has been referred to related GOV party

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: [REDACTED]
Fax: [REDACTED]

From: Wing Chun Kung LCK
Sent: Wednesday, November 15, 2017 8:36 AM
To: Patrick Pang LCK
Cc: Utan Wong LCK; wingyin.yeung@kmb.hk
Subject: RE: 271 BT pole installation status

Dear Pang sir,

Well received . Please also see another email for such illegal parking reference.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB

Email: wingchun.kung@kmb.hk

Tel:

Fax:

18.12

From: Patrick Pang LCK
Sent: Tuesday, November 14, 2017 4:03 PM
To: Wing Chun Kung LCK
Cc: Utan Wong LCK; Wing Yin Yeung LCK
Subject: Re: 271 BT pole installation status

Chun,

Many thanks for your suggestions. Please proceed.

Please also send me more photos via a separate email showing the seriousness of the illegal parking thereat. I want to send the photos to the Police for their reference.

Patrick

On 14 Nov 2017, at 12:50, Wing Chun Kung LCK <wingchun.kung@kmb.hk> wrote:


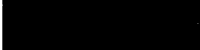
Dear Pang Sir,

After reviewing current operation situation at Rt. 271 Canton Road Bus terminus that is hindered by illegal parking, possible measures can be taken as in short to long term. Details shown as below:

1. Deploy an extra pole at the end of the BT with signs and notices on the both side; 巴士總站 on one side/嚴禁泊車 on the other.
That would alert member of public that a BT is situated in the area even when illegal parking vehicles do park and cover up the road markings of bus stop
2. Extend and refurbish existing queuing markings to once again alert M/P where BT is situated.
3. Installation of permanent pole adjacent to boarding point.
with such arrangement, ad. Box and further notice can be deployed upon the pole.

Please kindly comment and such arrangement can be taken swiftly.
In the meantime, I instructed the inspectorate team to closely monitor the situation.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 
Fax: 

From: Kam Tong Tang SER
Sent: Tuesday, November 14, 2017 11:34 AM
To: Tak Ching Cheng CFM; Jacky Ng CFM
Cc: Wing Chun Kung LCK; Tin Fong Lau SER; Kwai Wa Lee SER
Subject: FW: 271 BT pole installation status

18.12

阿靜：

因應車務要求，請安排儘快安裝種地站柱。謝謝。



From: Wing Chun Kung LCK
Sent: Tuesday, November 14, 2017 11:28 AM
To: Kam Tong Tang SER
Cc: Utan Wong LCK; Wing Yin Yeung LCK; Patrick Pang LCK
Subject: 271 BT pole installation status

Dear Tong,

As spoken before, JRF of pole installation on the captioned BT has been sent to CFMD. As illegal parking at Canton road hinders bus operation, installation would indeed post a clear message to member of public where BT is. Please kindly update the preparation status and take such action asap.

Please see attached picture for your reference.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 
Fax: 

<271 BT current status.jpg>

<271 BT current status 2.jpg>

<Suggestion 1.jpg>

<Suggestion 2.jpg>



18.12





18.12

5174

Wing Chun Kung LCK

18.12

From: Wing Chun Kung LCK
Sent: 2017年11月23日Thursday10:58
To: Patrick Pang LCK
C.c.: Utan Wong LCK; wingyin.yeung@kmb.hk
Subject: RE: 271 BT pole installation status
Attachment: IMG-20171121-WA0009.jpg; IMG-20171120-WA0006.jpg; IMG-20171120-WA0003.jpg; IMG-20171120-WA0002.jpg

Dear Pang Sir,

For your updated information, permanent bus stop pole JRF has been sent and still pending for CFMD action.

Still, other discussed measures were taken as to alert member of public that a BT is situated in the area.

1. Deploy an extra pole at the end of the BT with signs and notices- Completed
2. Extend and refurbish existing queuing markings – Completed
3. Installation of permanent pole- Pending for CFMD action

Also, reported by inspectors and frontline staff, illegal parking inside the bus bay reduced significantly after such arrangement.

The traffic situation would still be closely monitored. Please see attached photos for your reference.

p.s. refurbishment of bus stop road markings has been referred to related GOV party

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: [REDACTED]
Fax: [REDACTED]

From: Wing Chun Kung LCK
Sent: Wednesday, November 15, 2017 8:36 AM
To: Patrick Pang LCK
Cc: Utan Wong LCK; wingyin.yeung@kmb.hk
Subject: RE: 271 BT pole installation status

Dear Pang sir,

Well received . Please also see another email for such illegal parking reference.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB

Email: wingchun.kung@kmb.hk

Tel:

18.12

Fax:

From: Patrick Pang LCK

Sent: Tuesday, November 14, 2017 4:03 PM

To: Wing Chun Kung LCK

Cc: Utan Wong LCK; Wing Yin Yeung LCK

Subject: Re: 271 BT pole installation status

Chun,

Many thanks for your suggestions. Please proceed.

Please also send me more photos via a separate email showing the seriousness of the illegal parking thereat. I want to send the photos to the Police for their reference.

Patrick

On 14 Nov 2017, at 12:50, Wing Chun Kung LCK <wingchun.kung@kmb.hk> wrote:

Dear Pang Sir,

After reviewing current operation situation at Rt. 271 Canton Road Bus terminus that is hindered by illegal parking, possible measures can be taken as in short to long term. Details shown as below:

1. Deploy an extra pole at the end of the BT with signs and notices on the both side; "Bus Terminus" on one side/"No Parking" on the other.
That would alert member of public that a BT is situated in the area even when illegal parking vehicles do park and cover up the road markings of bus stop
2. Extend and refurbish existing queuing markings to once again alert M/P where BT is situated.
3. Installation of permanent pole adjacent to boarding point.
with such arrangement, ad. Box and further notice can be deployed upon the pole.

Please kindly comment and such arrangement can be taken swiftly.

In the meantime, I instructed the inspectorate team to closely monitor the situation.

Best Regards

Kenneth Kung

Operations Officer - Zone 1

Lai Chi Kok Depot, KMB

Email: wingchun.kung@kmb.hk

Tel:

Fax:

From: Kam Tong Tang SER
Sent: Tuesday, November 14, 2017 11:34 AM
To: Tak Ching Cheng CFM; Jacky Ng CFM
Cc: Wing Chun Kung LCK; Tin Fong Lau SER; Kwai Wa Lee SER
Subject: FW: 271 BT pole installation status

18.12

Ar Ching:

According to the request from the Operations Unit, please arrange immediately the installation of stands affixed onto the ground. Thank you.



From: Wing Chun Kung LCK
Sent: Tuesday, November 14, 2017 11:28 AM
To: Kam Tong Tang SER
Cc: Utan Wong LCK; Wing Yin Yeung LCK; Patrick Pang LCK
Subject: 271 BT pole installation status

Dear Tong,

As spoken before, JRF of pole installation on the captioned BT has been sent to CFMD. As illegal parking at Canton road hinders bus operation, installation would indeed post a clear message to member of public where BT is. Please kindly update the preparation status and take such action asap.

Please see attached picture for your reference.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 
Fax: 

<271 BT current status.jpg>

<271 BT current status 2.jpg>

<Suggestion 1.jpg>

<Suggestion 2.jpg>

This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.

本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。



This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.
本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。

18.12

Bus captain please slow down
Beware of the safety of
pedestrians crossing the road

Bus Terminus
No Parking

No
Parking

5179

This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.

本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。

Bus captain please slow down
Beware of the safety of
pedestrians crossing the road

巴士仔提提
Warm Reminder

Bus Terminus No
Parking

No
Parking

18.12

Bus
am 8-10
pm 5-8
Excl. General Holidays
公眾假期除外

5180

This English translation is for reference only. In the event of any discrepancy between the Chinese original and this English translation, the Chinese original shall prevail.

本英文譯本僅供參考。如英文譯本與中文原文有任何差異，以中文原文為準。



寄件者: Wing Chun Kung LCK
寄件日期: 2018年2月9日星期五 11:41
收件者: Patrick Pang LCK
副本: Utan Wong LCK
主旨: RE: FW: Complaint Against Illegal Parking inside Canton Road KMB Route No. 271 Bus Terminus Tsim Sha Tsui, Kowloon

Dear Pang Sir,

Well noted. Thanks.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 2673 1816
Fax: [REDACTED]

From: Patrick Pang LCK
Sent: Thursday, February 8, 2018 6:47 PM
To: Wing Chun Kung LCK
Cc: Utan Wong LCK
Subject: FW: FW: Complaint Against Illegal Parking inside Canton Road KMB Route No. 271 Bus Terminus Tsim Sha Tsui, Kowloon

Dear Chun,

Please note our contact point with Traffic Kowloon West is Senior Inspector, Traffic Investigation Group, Mr Tse Pui Wah, Philip.

Thank you.

Patrick

From: courtneychung@police.gov.hk [<mailto:courtneychung@police.gov.hk>]
Sent: Thursday, February 8, 2018 3:16 PM
To: Patrick Pang LCK
Subject: Re: FW: Complaint Against Illegal Parking inside Canton Road KMB Route No. 271 Bus Terminus Tsim Sha Tsui, Kowloon

Hi Patrick Sir - as confirmed by CIP SUP T KW Don MAK, SIP TIG T KW TSE Pui-wah, Philip, (Tel. 36619105) is the designated contact point with KMB (Operations), please feel free to contact SIP TSE direct 18.13

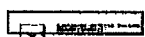
Regards

Chung Hung Yip Courtney
Superintendent
Enforcement and Control Division
Kowloon West Region

Tel: [REDACTED]
Fax: [REDACTED]

*** This e-mail message (together with any attachments) is for the designated recipient only. It may contain information that is privileged. If you are not the intended recipient, you are hereby notified that any use, retention, disclosure, copying, printing, forwarding or dissemination of the message is strictly prohibited. If you have received the message in error, please erase all copies of the message (including attachments) from your system and notify the sender immediately. ***

*** 此電郵訊息(連同任何附件)只發送給指定收件人。訊息可能包含享有特權資料。謹此通知，如你並非指定收件人，嚴禁使用、保留、披露、複製、列印、轉發或發布此訊息。如收到誤發的訊息，請把訊息的所有副本(包括附件)從系統內清除，並立即通知發件人。***



Patrick Pang LCK
<patrick.pang@kmb.hk>
2018-02-02 13:46

To: "courtneychung@police.gov.hk" <courtneychung@police.gov.hk>
Cc:
Subject: FW: Complaint Against Illegal Parking inside Canton Road KMB Route No. 271 Bus Terminus Tsim Sha
Reference:

Dear Courtney,

Received this email from Stephen Hon saying that we should approach TSE Pui-wah, OC TIG I&S KW, in future.

Just to confirm TSE Pui-wah is the contact person in future?

Please advise.

Thank you.

Patrick

-----Original from message-----

From: stephenhon@police.gov.hk [mailto:stephenhon@police.gov.hk]

Sent: Tuesday, January 02, 2018 5:17 PM

To: Kathy Tsang LCK

Cc: stanleylaw@police.gov.hk; pwtse@police.gov.hk

Subject: Re: Complaint Against Illegal Parking inside Canton Road KMB Route No. 271 Bus Terminus Tsim

Sha Tsui, Kowloon

18.13

Dear Ms. TSANG,

As my colleague, Mr. TSE Pui-wah, OC TIG I&S KW is responsible for the subject investigation, I shall forward your email to him for further action. Please direct further correspondence to him in future.

Dear Philip,

The subject matter is under the purview of Traffic Investigation Group; hence, please find the email below for your further action.

Best Regards,

(HON Ka-leung, Stephen)

Senior Inspector of Police,
Investigation and Support
Regional Traffic Headquarters, Kowloon West
Tel: [REDACTED]
Fax: [REDACTED]

心正意誠 - I'M 誠信道路先鋒

"To make the most out of the present for a better and happier tomorrow, for we can't change what's just past and don't know what's gonna happen in the future!"

"做好這一刻去迎接更美倫的明天,因為我們沒法改變過去也沒法預知未來!"

To Promote Excellence in Traffic Policing
交通警政 精益求精

*** This e-mail message (together with any attachments) is for the designated recipient only. It may contain information that is privileged.

If you are not the intended recipient, you are hereby notified that any use, retention, disclosure, copying, printing, forwarding or dissemination of the message is strictly prohibited. If you have received the message in error, please erase all copies of the message (including attachments) from your system and notify the sender immediately. ***

*** 此電郵訊息(連同任何附件)只發送給指定收件人。訊息可能包含享有特權資料。謹此通知,如你並非預定收件人,嚴禁使用、保留、披露、複製、列印、轉發或發布此訊息。如收到誤發的訊息,請把訊息的所有副本(包括附件)從系統內清除,並立即通知發件人。***

Kathy Tsang LCK <kathytsang@kmb.hk>

To:

"cip-sup-t-kw@police.gov.hk"
<cip-sup-t-kw@police.gov.hk>

2018-01-02 12:27

Cc:

"cip-sup-t-kw@police.gov.hk"
<cip-sup-t-kw@police.gov.hk>,
"ip-sip-sup-t-kw@police.gov.hk"

<ip-sip-sup-t-kw@police.gov.hk>

18.13

|-----|
| () w/ CONFIDENTIAL Attachment |
| () RESTRICTED |
| (*) Unclassified |
|-----|

Subject:

Reference:

Complaint Against Illegal Parking inside
Canton Road KMB Route No. 271 Bus
Terminus Tsim Sha Tsui, Kowloon

|-----|
| [] GR to file |
|-----|

Transport International Holdings Limited E-mail Disclaimer

This e-mail may contain confidential, proprietary or legally privileged information and is intended for the attention and use of the addressee(s) only. If you are not the intended recipient of this message, you must not copy, use or disclose any part of its contents. Please notify the sender immediately and delete this message from your system.

The Transport International Holdings Limited and each of its affiliates and the sender of this message shall not be responsible or liable for any errors or omissions in the contents of this message as secure or error free e-mail transmission cannot be guaranteed. Information sent via e-mail could arrive late or contain viruses or be intercepted, corrupted, lost, destroyed, or incomplete. Unless otherwise stated, any information given in this message is indicative only and is subject to our formal written confirmation. (See attached file: LCKD.OPN.3.18.pdf)

Transport International Holdings Limited E-mail Disclaimer

This e-mail may contain confidential, proprietary or legally privileged information and is intended for the attention and use of the addressee(s) only. If you are not the intended recipient of this message, you must not copy, use or disclose any part of its contents. Please notify the sender immediately and

delete this message from your system.

18.13

The Transport International Holdings Limited and each of its affiliates and the sender of this message shall not be responsible or liable for any errors or omissions in the contents of this message as secure or error free e-mail transmission cannot be guaranteed. Information sent via e-mail could arrive late or contain viruses or be intercepted, corrupted, lost, destroyed, or incomplete. Unless otherwise stated, any information given in this message is indicative only and is subject to our formal written confirmation.

[attachment "LCKD.OPN.3.18.pdf" deleted by sp-e-c-kw/T-KW/STATION/POLICE/HKSARG]

Wing Chun Kung LCK

18.13

寄件者: Wing Chun Kung LCK
寄件日期: 2018年2月9日星期五 11:41
收件者: Patrick Pang LCK
副本: Utan Wong LCK
主旨: RE: FW: Complaint Against Illegal Parking inside Canton Road KMB Route No. 271 Bus Terminus Tsim Sha Tsui, Kowloon

Dear Pang Sir,

Well noted. Thanks.

Best Regards

Kenneth Kung
Operations Officer - Zone 1
Lai Chi Kok Depot, KMB
Email: wingchun.kung@kmb.hk
Tel: 2673 1816
Fax: [REDACTED]

From: Patrick Pang LCK
Sent: Thursday, February 8, 2018 6:47 PM
To: Wing Chun Kung LCK
Cc: Utan Wong LCK
Subject: FW: FW: Complaint Against Illegal Parking inside Canton Road KMB Route No. 271 Bus Terminus Tsim Sha Tsui, Kowloon

Dear Chun,

Please note our contact point with Traffic Kowloon West is Senior Inspector, Traffic Investigation Group, Mr Tse Pui Wah, Philip.

Thank you.

Patrick

From: courtneychung@police.gov.hk [<mailto:courtneychung@police.gov.hk>]
Sent: Thursday, February 8, 2018 3:16 PM
To: Patrick Pang LCK
Subject: Re: FW: Complaint Against Illegal Parking inside Canton Road KMB Route No. 271 Bus Terminus Tsim Sha Tsui, Kowloon

Hi Patrick Sir - as confirmed by CIP SUP T KW Don MAK, SIP TIG T KW TSE Pui-wah, Philip, (Tel. 36619105) is the designated contact point with KMB (Operations), please feel free to contact SIP TSE direct 18.13

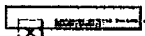
Regards

Chung Hung Yip Courtney
Superintendent
Enforcement and Control Division
Kowloon West Region

Tel: [REDACTED]
Fax: [REDACTED]

*** This e-mail message (together with any attachments) is for the designated recipient only. It may contain information that is privileged. If you are not the intended recipient, you are hereby notified that any use, retention, disclosure, copying, printing, forwarding or dissemination of the message is strictly prohibited. If you have received the message in error, please erase all copies of the message (including attachments) from your system and notify the sender immediately. ***

*** 此電郵訊息(連同任何附件)只發送給指定收件人。訊息可能包含享有特權資料。謹此通知，如你並非指定收件人，嚴禁使用、保留、披露、複製、列印、轉發或發布此訊息。如收到誤發的訊息，請把訊息的所有副本(包括附件)從系統內清除，並立即通知發件人。***



Patrick Pang LCK
<patrick.pang@kmb.hk>
2018-02-02 13:46

To: "courtneychung@police.gov.hk" <courtneychung@police.gov.hk>
Cc:
Subject: FW: Complaint Against Illegal Parking inside Canton Road KMB Route No. 271 Bus Terminus Tsim Sha
Reference:

Dear Courtney,

Received this email from Stephen Hon saying that we should approach TSE Pui-wah, OC TIG I&S KW, in future.

Just to confirm TSE Pui-wah is the contact person in future?

Please advise.

Thank you.

Patrick

-----Original from message-----

From: stephenhon@police.gov.hk [mailto:stephenhon@police.gov.hk]
Sent: Tuesday, January 02, 2018 5:17 PM
To: Kathy Tsang LCK
Cc: stanleylaw@police.gov.hk; pwtse@police.gov.hk
Subject: Re: Complaint Against Illegal Parking inside Canton Road KMB Route No. 271 Bus Terminus Tsim

Sha Tsui, Kowloon

18.13

Dear Ms. TSANG,



As my colleague, Mr. TSE Pui-wah, OC TIG I&S KW is responsible for the subject investigation, I shall forward your email to him for further action. Please direct further correspondence to him in future.

Dear Philip,

The subject matter is under the purview of Traffic Investigation Group; hence, please find the email below for your further action.

Best Regards,

(HON Ka-leung, Stephen)

Senior Inspector of Police,
Investigation and Support
Regional Traffic Headquarters, Kowloon West
Tel: 
Fax: 

Righteous and Honest - I'm a road pioneer with integrity

"To make the most out of the present for a better and happier tomorrow, for we can't change what's just past and don't know what's gonna happen in the future!"
"做好這一刻去迎接更美倫的明天，因為我們沒法改變過去也沒法預知未來!"

To Promote Excellence in Traffic Policing
交通警政 精益求精

*** This e-mail message (together with any attachments) is for the designated recipient only. It may contain information that is privileged.
If you are not the intended recipient, you are hereby notified that any use, retention, disclosure, copying, printing, forwarding or dissemination of the message is strictly prohibited. If you have received the message in error, please erase all copies of the message (including attachments) from your system and notify the sender immediately. ***

*** 此電郵訊息(連同任何附件)只發送給指定收件人。訊息可能包含享有特權資料。謹此通知，如你並非預定收件人，嚴禁使用、保留、披露、複製、列印、轉發或發布此訊息。如收到誤發的訊息，請把訊息的所有副本(包括附件)從系統內清除，並立即通知發件人。***

Kathy Tsang LCK <kathytsang@kmb.hk>

To:

"cip-sup-t-kw@police.gov.hk"
<cip-sup-t-kw@police.gov.hk>

2018-01-02 12:27

Cc:

"cip-sup-t-kw@police.gov.hk"
<cip-sup-t-kw@police.gov.hk>,
"ip-sip-sup-t-kw@police.gov.hk"

<ip-sip-sup-t-kw@police.gov.hk>

18.13

|-----|
| () w/ CONFIDENTIAL Attachment |
| () RESTRICTED |
| (*) Unclassified |
|-----|

Subject:

Reference:

Complaint Against Illegal Parking inside
Canton Road KMB Route No. 271 Bus
Terminus Tsim Sha Tsui, Kowloon
|-----|
| [] GR to file |
|-----|

Transport International Holdings Limited E-mail Disclaimer

This e-mail may contain confidential, proprietary or legally privileged information and is intended for the attention and use of the addressee(s) only. If you are not the intended recipient of this message, you must not copy, use or disclose any part of its contents. Please notify the sender immediately and delete this message from your system.

The Transport International Holdings Limited and each of its affiliates and the sender of this message shall not be responsible or liable for any errors or omissions in the contents of this message as secure or error free e-mail transmission cannot be guaranteed. Information sent via e-mail could arrive late or contain viruses or be intercepted, corrupted, lost, destroyed, or incomplete. Unless otherwise stated, any information given in this message is indicative only and is subject to our formal written confirmation. (See attached file: LCKD.OPN.3.18.pdf)

Transport International Holdings Limited E-mail Disclaimer

This e-mail may contain confidential, proprietary or legally privileged information and is intended for the attention and use of the addressee(s) only. If you are not the intended recipient of this message, you must not copy, use or disclose any part of its contents. Please notify the sender immediately and

delete this message from your system.

18.13

The Transport International Holdings Limited and each of its affiliates and the sender of this message shall not be responsible or liable for any errors or omissions in the contents of this message as secure or error free e-mail transmission cannot be guaranteed. Information sent via e-mail could arrive late or contain viruses or be intercepted, corrupted, lost, destroyed, or incomplete. Unless otherwise stated, any information given in this message is indicative only and is subject to our formal written confirmation.

[attachment "LCKD.OPN.3.18.pdf" deleted by sp-e-c-kw/T-KW/STATION/POLICE/HKSARG]

舉報違泊報告書

18.14

本人現職於九龍巴士(一九三三)有限公司，職級為____區車務督察，姓名：____，中文電碼：____，

身份證明文件號碼：____，出生日期：____年____月____日，年歲：____

聯絡電話：____ / 公司電話：____，地址：____香港九龍荔枝角寶輪街九號十五樓____。

現擬舉報一宗發生於____年____月____日____：____時的交通違例泊車事件，

當中牽涉一輛____車，車牌為____。當日該____車，車牌____未經授權違例停泊於

九龍尖沙咀廣東道 68 號巴士站內，嚴重阻礙巴士正常運作，亦對上落巴士的乘客構成即時危險。本人現正式

作出投訴並希望警方能嚴正執法，檢控該違泊車輛以確保所有道路使用者的安全。本人亦願意在有需要時出庭

作証，協助警方提出訴訟。

本人亦隨同此份報告，附上一張當日由本人攝錄機拍得的錄影片段(DVD 片段)，

以供西九龍交通部調查人員參考。本人證實該 DVD 片段並無任何刪剪，亦為現場所攝錄到的全部。

報告人簽署：_____

日期：_____

跟進事項(由區長或副區長填寫)

違泊報告編號：_____

職員編號：_____

職員姓名：_____

簽署：_____

日期：_____5192

18.14

Report on reporting illegal parking

I am currently work in the Kowloon Motor Bus Co. (1933) Ltd . My post is Inspector of District ____ . Name: ____ . Chinese Commercial Code: ____ . ID Card number: ____ . Date of Birth: ____ Year ____ Month ____ Day . Age: ____ . Contact: ____ / Contact of the office: ____ . Address: 15/F, 9 Po Lun Street, Lai Chi Kwok, Kowloon, Hong Kong .

I am intended to report an incident of illegal parking happened at ____ Year ____ Month ____ Day. It involved a ____ , the registration number of which is ____ . On that day, the ____ of registration number ____ , without authorization, illegally parked inside the bus stop situated in 68 Canton Road, Tsim Sha Tsui, Kowloon. It severely hindered the operation of the bus and put the passengers getting on and off the bus at immediate risk. I hereby formally complain the matter to the police and hope that the police can strictly enforce the law by laying charge against the car for illegal parking to ensure the safety of all road users. I am willing to testify in court to assist the police in the legal proceeding.

I have also enclosed with this report for the investigators of the Traffic Kowloon West's reference a video clip (DVD clip) recorded by my camera ____ . I verify that the DVD clip has not been edited and it is entirely what I have recorded on the scene.

Complainant: ____

Date: ____

Follow-up (to be filled in by General Inspector or Deputy General Inspector)

Illegal Parking Report Number: ____

Staff number: ____

Name of the staff: ____

Signature: ____

Date: ____

以錄影片段舉報違泊程序

對象:

- 各級車務督察
- 有關車務組文員

5195

以錄影片段舉報違泊程序

舉報違泊報告書

本人現僱於九龍巴士(一九三三)有限公司，職級為區車務督察，姓名：_____，中文電碼：_____，

身份證明文件號碼：_____，出生日期：_____年_____月_____日，年歲：_____，

聯絡電話：_____ / 公司電話：_____，地址：香港九龍荔枝角寶琳街九號十五樓，

現擬舉報一宗發生於_____年_____月_____日_____時的交通違例泊車事件，

當中涉及一輛_____車，車牌為_____，當日該_____車，車牌_____未遵接獲違例停泊於，

九龍尖沙咀彌敦道 68 號巴士站內，嚴重阻礙巴士正常運作，亦對上落巴士的乘客構成即時危險。本人現正式

作出投訴並希望警方能正執法，檢控該違泊車輛以確保所有道路使用者的安全。本人亦願意在有需要時出庭作証，協助警方提出訴訟。

本人亦隨同此份報告，附上一張當日由本人攝錄機拍得的錄影片段(DVD 片段)，

以供西九龍交通警人員參考。本人證實該 DVD 片段並無任何刪剪，亦為現場所攝錄到的全部。

報告人簽署：_____

日期：_____

跟進事項(由區長或副區長填寫)

違泊報告編號：_____

覆員編號：_____

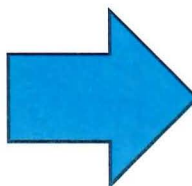
覆員姓名：_____

簽署：_____

日期：_____

以錄影片段舉報違泊程序

區長或副區長負責填寫當中
跟進事項一欄



辭職補治報告書

本人現職於九龍巴士(一九三三)有限公司, 職位為 區區長 職責, 合約 _____, 中文編號 _____, 僱傭文件號碼: _____, 任職日期: _____ 年 _____ 月 _____ 日, 年俸: _____, 聯絡電話: _____ / 公司電話 _____, 地址: 香港九龍葵青區葵興路九號十三樓 _____, 現因 _____ 年 _____ 月 _____ 日 _____ 項的交通過失事件, 前中區沙田 _____ 區, 車速為 _____, 前日於 _____ 區, 車速 _____ 元被攝錄為違例, 九龍巴士總匯座落 68 號巴士站內, 嚴重阻礙巴士正常運作, 亦對上列巴士的乘客造成極大影響。本人現正正作此說明, 並願立即刪除該片, 並因該項車速被錄為所有攝錄車速的責任, 本人可隨時向攝錄車速作証, 協助警方進行訴訟。

本人可隨時提供影片, 附上一張當日由本人攝錄機拍攝的影片片段(DVD 片段)。

以作當九龍交通監察人員參考。本人願棄權 DVD 片段當日所有權利, 亦為現場所攝錄到的全片。

報告人簽署: _____
日期: _____

距違事項(由區長或副區長填寫)

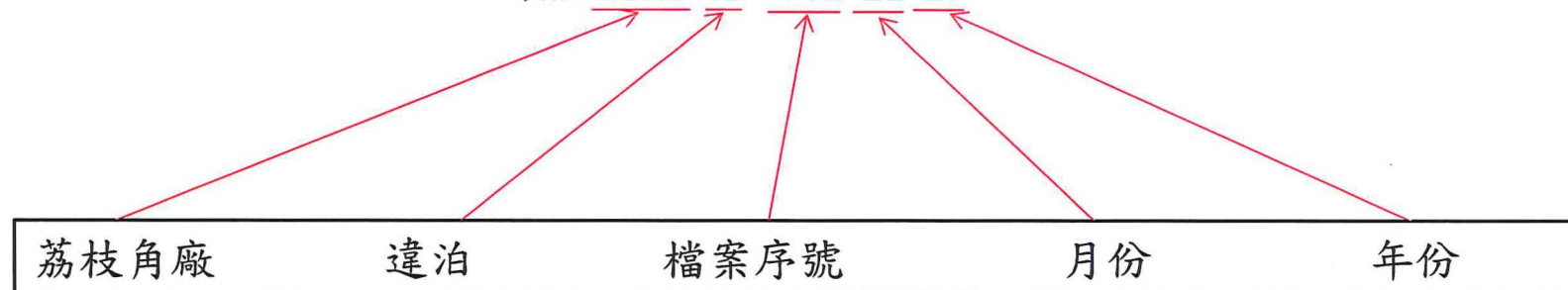
補治報告編號: _____
區長編號: _____
區長姓名: _____
簽署: _____
日期: _____

以錄影片段舉報違泊程序

- * 區長及副區長須於有關共用資料夾自行建立
- 1. 有關檔案編號
- 2. 有關檔案編號資料夾
- 3. 上傳有關影片到資料夾
- 4. 並於“車務督察以錄影片段舉報違泊報告紀錄”作出登記

檔案編號組成格式如下:

如: LCKD-ILP-001-11-17



以錄影片段舉報違泊程序

1. 於有關共用資料夾自行建立有關檔案編號

| 名稱 | 修改日期 ^ | 類型 | 大小 |
|---|------------------|---------------------|--------|
| Dump | 30/11/2017 18:46 | 檔案資料夾 | |
| LCKD-ILP-001-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| LCKD-ILP-002-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| LCKD-ILP-003-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| Illegal Parking located at Canton Road... | 20/11/2017 19:05 | Microsoft Word ... | 20 KB |
| 車務督察以錄影片段舉報違泊報告書 | 22/11/2017 9:01 | Microsoft Word ... | 19 KB |
| Complaint letter against illegal parking | 22/11/2017 11:44 | Microsoft Word ... | 33 KB |
| 擬訂車務督察以錄影片段舉報違泊報告書... | 30/11/2017 19:04 | Microsoft Power... | 410 KB |
| 車務督察以錄影片段舉報違泊報告紀錄 | 30/11/2017 19:05 | Microsoft Excel ... | 11 KB |

以錄影片段舉報違泊程序

根據檔案編號組成格式及有關不同資料
於<車務督察以錄影片段舉報違泊報告紀錄>進行登記

| A | B | C | D | E | F | G | H |
|--------------------|------------|--------|------|------------------|--------|---|---|
| 檔案編號 | 發生日期 | 車牌 | 車輛類別 | 地點 | 違泊片段編號 | | 車輛類別總表 |
| LCKD-ILP-001-12-17 | 15/11/2017 | XX1234 | 私家車 | 尖沙咀廣東道46號對出-廣東道站 | | | 私家車 貨車 旅遊巴士 電單車 解款車 垃圾車 環保斗 其他 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

以錄影片段舉報違泊程序

* 於有關共用資料夾自行建立有關檔案編號資料夾

| 名稱 | 修改日期 ^ | 類型 | 大小 |
|---|------------------|---------------------|--------|
| Dump | 30/11/2017 18:46 | 檔案資料夾 | |
| LCKD-ILP-001-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| LCKD-ILP-002-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| LCKD-ILP-003-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| Illegal Parking located at Canton Road... | 20/11/2017 19:05 | Microsoft Word ... | 20 KB |
| 車務督察以錄影片段舉報違泊報告書 | 22/11/2017 9:01 | Microsoft Word ... | 19 KB |
| Complaint letter against illegal parking | 22/11/2017 11:44 | Microsoft Word ... | 33 KB |
| 擬訂車務督察以錄影片段舉報違泊報告書... | 30/11/2017 19:04 | Microsoft Power... | 410 KB |
| 車務督察以錄影片段舉報違泊報告紀錄 | 30/11/2017 19:05 | Microsoft Excel ... | 11 KB |

以錄影片段舉報違泊程序

* 上傳有關影片到資料夾



| | | | | |
|--|-----------------|----------------------|-----------|--|
| 新增 刪除 選取 | | | | |
| > LCKShared > LCK Operations > Zone 1 > Illegal Parking Video Case > 001-11-17 | | | | |
| 名稱 | 修改日期 | 類型 | 大小 | |
| VID-20171115-WA0023 | 16/11/2017 7:59 | VLC media file (.... | 11,766 KB | |

以錄影片段舉報違泊程序

- * 各車務督察完成有關程序後將有關
“車務督察以錄影片段舉報違泊報告書”交回車務組

- * 有關文員將上述有關文件同時
 1. 掃描及上傳報告書至有關檔案編號共用資料夾內
 2. 存放於車務組”以錄影片段舉報違泊報告書”資料夾內

以錄影片段舉報違泊程序

- * 各車務主任核實各文件及有關資料後轉交警方跟進

Procedures of reporting illegal parking using video recording

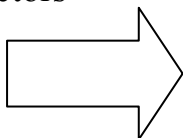
Targets:

Inspectors at all levels

Relevant operations clerks

Procedures of reporting illegal parking using video recording

Inspectors should visit the relevant location for documenting and completing the relevant “illegal parking report by inspectors”



Illegal Parking Report

I am currently working in The Kowloon Motor Bus Co. (1933) Ltd. as an inspector in _____ district with the following particulars: Name: _____, Chinese Commercial Code: _____, ID no.: _____, Date of Birth: _____ (DD/MM/YY), Age: _____, Contact Phone No.: _____ / Company Phone No.: _____, Address: 13/F, 9 Po Lun Street, Lai Chi Kok, Kowloon, Hong Kong.

I am hereby reporting an illegal parking incident occurred at ____:____ on _____ (DD/MM/YY), involving a _____ vehicle with a license plate no. _____. At that time, the _____ vehicle with the license plate no. _____ parked at the bus stop in 68 Canton Road, Tsim Sha Tsui, Kowloon illegally without any authorization, seriously impeding the normal operation of the bus, and posing immediate danger to passengers getting on and off the bus. I hereby officially lodge a complaint and hope that the police can strictly enforce the law and prosecute the vehicle that is illegally parked so as to ensure the safety of all road users. I am also willing to testify in court when necessary to assist the police in filing a lawsuit.

I am also enclosing a video clip (DVD video clip) taken by my camcorder on that day together with this report for reference by the investigators of Traffic Kowloon East. I confirm that the DVD video clip has not been deleted and was recorded on the spot.

Signature of reporter: _____

Date: _____

Follow-up matters (to be completed by the district head or deputy district head)

Illegal parking report number: _____

Staff No.: _____

Name of Staff: _____

Signature: _____

Date: _____

Procedures of reporting illegal parking using video recording

Illegal Parking Report

I am currently working in The Kowloon Motor Bus Co. (1933) Ltd. as an inspector in _____ district with the following particulars: Name: _____, Chinese Commercial Code: _____, ID no.: _____, Date of Birth: _____ (DD/MM/YY), Age: _____, Contact Phone No.: _____ / Company Phone No.: _____, Address: 13/F, 9 Po Lun Street, Lai Chi Kok, Kowloon, Hong Kong.

I am hereby reporting an illegal parking incident occurred at ____:____ on _____ (DD/MM/YY), involving a _____ vehicle with a license plate no. _____. At that time, the _____ vehicle with the license plate no. _____ parked at the bus stop in 68 Canton Road, Tsim Sha Tsui, Kowloon illegally without any authorization, seriously impeding the normal operation of the bus, and posing immediate danger to passengers getting on and off the bus. I hereby officially lodge a complaint and hope that the police can strictly enforce the law and prosecute the vehicle that is illegally parked so as to ensure the safety of all road users. I am also willing to testify in court when necessary to assist the police in filing a lawsuit.

I am also enclosing a video clip (DVD video clip) taken by my camcorder on that day together with this report for reference by the investigators of Traffic Kowloon East. I confirm that the DVD video clip has not been deleted and was recorded on the spot.

Signature of reporter: _____

Date: _____

Follow-up matters (to be completed by the district head or deputy district head)

Illegal parking report number: _____

Staff No.: _____

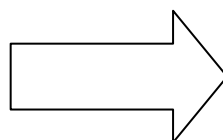
Name of Staff: _____

Signature: _____

Date: _____

Procedures of reporting illegal parking using video recording

The district head or deputy district head is responsible for completing the column regarding “follow-up matters”



| <u>Illegal Parking Report</u> | |
|--|--|
| I am currently working in The Kowloon Motor Bus Co. (1933) Ltd. as an inspector in _____ district with the following particulars: Name: _____, Chinese Commercial Code: _____, ID no.: _____, Date of Birth: _____ (DD/MM/YY), Age: _____, Contact Phone No.: _____ / Company Phone No.: _____, Address: <u>13/F, 9 Po Lun Street, Lai Chi Kok, Kowloon, Hong Kong.</u> | |
| I am hereby reporting an illegal parking incident occurred at ____:____ on _____ (DD/MM/YY), involving a _____ vehicle with a license plate no. _____. At that time, the _____ vehicle with the license plate no. _____ parked at the bus stop in <u>68 Canton Road, Tsim Sha Tsui, Kowloon</u> illegally without any authorization, seriously impeding the normal operation of the bus, and posing immediate danger to passengers getting on and off the bus. I hereby officially lodge a complaint and hope that the police can strictly enforce the law and prosecute the vehicle that is illegally parked so as to ensure the safety of all road users. I am also willing to testify in court when necessary to assist the police in filing a lawsuit. | |
| I am also enclosing a video clip (DVD video clip) taken by my camcorder on that day together with this report for reference by the investigators of Traffic Kowloon East. I confirm that the DVD video clip has not been deleted and was recorded on the spot. | |
| Signature of reporter: _____ | |
| Date: _____ | |
| <hr/> | |
| Follow-up matters (to be completed by the district head or deputy district head) | |
| Illegal parking report number: _____ | |
| Staff No.: _____ | |
| Name of Staff: _____ | |
| Signature: _____ | |
| Date: _____ | |

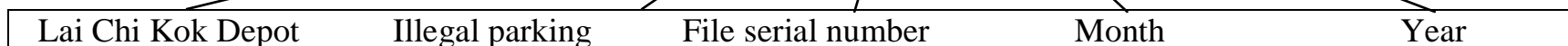
Procedures of reporting illegal parking using video recording

* The district head and the deputy district head must make the move to set up the following information in the relevant sharing folder.

1. Relevant file number
2. Folder pertaining to relevant file number
3. Upload the related videos to the folder
4. Create entry in the “record of illegal parking report using video recording by inspectors”

The format of the file number is as follows:

Such as: LCKD-ILP-001-11-17



Procedures of reporting illegal parking using video recording

1. Make the move to set up the relevant file number in the relevant sharing folder



| 名稱 | 修改日期 | 類型 | 大小 |
|---|------------------|---------------------|--------|
| Dump | 30/11/2017 18:46 | 檔案資料夾 | |
| LCKD-ILP-001-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| LCKD-ILP-002-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| LCKD-ILP-003-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| Illegal Parking located at Canton Road... | 20/11/2017 19:05 | Microsoft Word ... | 20 KB |
| 車務處以錄影片投訴非法泊車報告 | 22/11/2017 9:01 | Microsoft Word ... | 19 KB |
| Complaint letter against illegal parking | 22/11/2017 11:44 | Microsoft Word ... | 33 KB |
| 擬訂車務處以錄影片投訴非法泊車報告... | 30/11/2017 19:04 | Microsoft Power... | 410 KB |
| 車務處以錄影片投訴非法泊車報告記錄 | 30/11/2017 19:05 | Microsoft Excel ... | 11 KB |

Procedures of reporting illegal parking using video recording

Create entry in the “record of illegal parking report using video recording by inspectors” according to the format of the file number and various relevant information

| A | B | C | D | E | F | G | H |
|-------------------------------|--------------------|----------------------|----------------------|--|------------------------------|---|------------------------------|
| Illegal parking report number | Date of occurrence | License plate number | Category of vehicles | Location | No. of illegal parking video | | List of category of vehicles |
| LCKD-ILP-001-12-17 | 15/11/2017 | XX1234 | Private car | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | | | |
| | | | | | | | Private car |
| | | | | | | | Truck |
| | | | | | | | Tour bus |
| | | | | | | | Motorcycle |
| | | | | | | | Cash escort vehicle |
| | | | | | | | Refuse collection vehicle |
| | | | | | | | Skips |
| | | | | | | | Others |

Procedures of reporting illegal parking using video recording

*Set up the relevant file number folder in the relevant sharing folder

| 名稱 | 修改日期 | 類型 | 大小 |
|---|------------------|---------------------|--------|
| Dump | 30/11/2017 18:46 | 檔案資料夾 | |
| LCKD-ILP-001-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| LCKD-ILP-002-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| LCKD-ILP-003-12-17 | 30/11/2017 19:04 | 檔案資料夾 | |
| Illegal Parking located at Canton Road... | 20/11/2017 19:05 | Microsoft Word ... | 20 KB |
| 重發舊案以錄影片段報達泊報書 | 22/11/2017 9:01 | Microsoft Word ... | 19 KB |
| Complaint letter against illegal parking | 22/11/2017 11:44 | Microsoft Word ... | 33 KB |
| 續訂重發舊案以錄影片段報達泊報書... | 30/11/2017 19:04 | Microsoft Power... | 410 KB |
| 重發舊案以錄影片段報達泊報書紀錄 | 30/11/2017 19:05 | Microsoft Excel ... | 11 KB |

Procedures of reporting illegal parking using video recording

*Upload the related videos to the folder



Procedures of reporting illegal parking using video recording

*After the completion of the relevant procedures, the inspectors will return the “illegal parking report using video recording by inspectors” to the operations team

*The relevant clerk will handle the above relevant documents as follows:

1. Scan and upload the report to the relevant file number sharing folder
2. File in the “illegal parking report using video recording” folder of the operations team

Procedures of reporting illegal parking using video recording

*The operations officers will verify the documents and relevant information before forwarding them to the police for follow-up actions

| 違泊報告編號 | 發生日期 | 車牌 | 車輛類別 | 地點 | 違泊片段名稱 |
|--------------------|------------|----|------|------------------|---------------------|
| LCKD-ILP-001-12-17 | 2017/12/08 | | 私家車 | 尖沙咀廣東道68號對出-廣東道站 | 20171208_182255.mp4 |
| LCKD-ILP-002-12-17 | 2017/12/08 | | 私家車 | 尖沙咀廣東道68號對出-廣東道站 | 20171208_183209.mp4 |
| LCKD-ILP-003-12-17 | 2017/12/08 | | 私家車 | 尖沙咀廣東道68號對出-廣東道站 | 20171208_183257.mp4 |
| LCKD-ILP-004-12-17 | 2017/12/13 | | 私家車 | 尖沙咀廣東道68號對出-廣東道站 | 20171213_154321.mp4 |

| 檔案編號 | 發生日期 | 車牌 | 車輛類別 | 地點 | 違泊片段編號 |
|-------------------------------|------------|----|------|------------------|-------------------------|
| LCKD-ILP-001-01-18 | 2018/01/16 | | 其他 | 尖沙咀廣東道68號對出-廣東道站 | 20180116_.mp4 |
| LCKD-ILP-002-01-18 | 2018/01/28 | | 旅遊巴士 | 尖沙咀廣東道68號對出-廣東道站 | 20180128_134935.mp4 |
| LCKD-ILP-003-01-18 | 2018/01/30 | | 私家車 | 尖沙咀廣東道68號對出-廣東道站 | 20180130_162714.mp4 |
| LCKD-ILP-004-02-18 | 2018/02/10 | | 的士 | 尖沙咀廣東道68號對出-廣東道站 | VID-20180210-WA0087 |
| LCKD-ILP-005-02-18 | 2018/02/10 | | 的士 | 尖沙咀廣東道68號對出-廣東道站 | VID-20180210-WA0012 |
| LCKD-ILP-006-03-18 | 2018/02/25 | | 的士 | 尖沙咀廣東道68號對出-廣東道站 | IMG_3394.MOV |
| LCKD-ILP-007-04-18 | | | | 尖沙咀廣東道68號對出-廣東道站 | |
| LCKD-ILP-008-05-18 | 2018/05/22 | | | 尖沙咀廣東道68號對出-廣東道站 | - |
| LCKD-ILP-009-05-18 | | | | 尖沙咀廣東道68號對出-廣東道站 | |
| LCKD-ILP-010-06-18 | 2018/06/06 | | 貨車 | 佐敦道東行23-29號對出 | 20180606_222959.mp4 |
| LCKD-ILP-011-06-18 | | | | 尖沙咀廣東道68號對出-廣東道站 | |
| LCKD-ILP-012-06-18 | | | | 佐敦道東行23-29號對出 | |
| LCKD-ILP-013-06-18 | 2018/06/01 | | 旅遊巴士 | 漆咸道南麼地道總站出口 | 20180601_163114.mp4 |
| LCKD-ILP-014-06-18 | 2018/06/02 | | 的士 | 佐敦道東行23-29號對出 | IMG_8512.MOV |
| LCKD-ILP-015-06-18 | 2018/06/13 | | 私家車 | 甘泉街巴士總站 | 20180613_151037.mp4 |
| LCKD-ILP-001-08-18 | 2018/08/06 | | 貨車 | 渡船街2B號對出近文英樓 | VID-20180806-WA0001.mp4 |

Record of illegal parking report using video recording by inspectors – 2017

| Illegal parking report number | Date of occurrence | License plate number | Category of vehicles | Location | File name of the illegal parking video |
|-------------------------------|--------------------|----------------------|----------------------|--|--|
| LCKD-ILP-001-12-17 | 2017/12/08 | | Private car | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | 20171208_1822S5.mp4 |
| LCKD-ILP-002-12-17 | 2017/12/08 | | Private car | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | 20171208_183209.mp4 |
| LCKD-ILP-003-12-17 | 2017/12/08 | | Private car | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | 20171208_183257.mp4 |
| LCKD-ILP-004-12-17 | 2017/12/13 | | Private car | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | 20171213_154321.mp4 |

Illegal parking report using video recording by inspectors – 2018

| File number | Date of occurrence | License plate number | Category of vehicles | Location | File name of the illegal parking video |
|-------------------------------|-----------------------|----------------------|----------------------|---|--|
| LCKD-ILP-001-01-18 | 2018/01/16 | | Others | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | 20180116_.mp4 |
| LCKD-ILP-002-01-18 | 2018/01/28 | | Tour bus | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | 20180128_134935.mp4 |
| LCKD-ILP-003-01-18 | 2018/01/30 | | Private car | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | 20180130_162714.mp4 |
| LCKD-ILP-004-02-18 | 2018/02/10 | | Taxi | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | VID-20180210-WA0087 |
| LCKD-ILP-005-02-18 | 2018/02/10 | | Taxi | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | VID-20180210-WA0012 |
| LCKD-ILP-006-03-18 | 2018/02/25 | | Taxi | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | IMG 3394.MOV |
| LCKD-ILP-007-04-18 | | | | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | |
| LCKD-ILP-008-05-18 | 2018/05/22 | | | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | - |

| | | | | |
|-------------------------------|------------|-------------|---|-------------------------|
| LCKD-ILP-009-05-18 | | | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | |
| LCKD-ILP-010-06-18 | 2018/06/06 | Truck | Off 23-29 Jordan Road Eastbound | 20180606_222959.mp4 |
| LCKD-ILP-011-06-18 | | | Canton Road Station, off 68 Canton Road, Tsim Sha Tsui | |
| LCKD-ILP-012-06-18 | | | Off 23-29 Jordan Road Eastbound | |
| LCKD-ILP-013-06-18 | 2018/06/01 | Tour bus | Mody Road Terminal Exit, Chatham Road South | 20180601_163114.mp4 |
| LCKD-ILP-014-06-18 | 2018/06/02 | Taxi | Off 23-29 Jordan Road Eastbound | IMG_8512.MOV |
| LCKD-ILP-015-06-18 | 2018/06/13 | Private car | Kom Tsun Street Bus Terminal | 20180613_151037.mp4 |
| LCKD-ILP-001-08-18 | 2018/08/06 | Truck | Near Man Ying Building, off No. 2B, Ferry Street | VID-20180806-WA0001.mp4 |

19.1 Table identifying relevant parties in email correspondences

| Name | Position at material time |
|---------------------------|--|
| Chun Kin Chan SER ("CKC") | Senior Engineer, Service Department, KMB |
| Sai Lok Ho SER ("SLH") | Senior Engineer, Service Department, KMB |
| Jan Kulis ("JK") | System Engineering Teamleader, Openmatics, a subsidiary of ZF Friedrichshafen AG |
| Andrew Boulton ("AB") | Customer Development & Technical Director, Alexander Dennis (Asia Pacific) Limited |
| Julia Lu ("JL") | Key Account manager, Volvo Bus Hong Kong Limited |
| Scott Harvey ("SH") | Manager, Sales and Sales Engineering, Volvo Bus Hong Kong Limited |

19.2 Chronology and summary of emails between KMB and Openmatics

| Date | Sender | Recipient | Summary | Reference |
|----------------|--------|-----------|---|--------------------|
| 2 August 2018 | JK | CKC | Table showing threshold value of KMB and three other European bus operators | Document no. 19.5 |
| 3 August 2018 | CKC | JK | Enquire criteria used by double decker bus operators | Document no. 19.6 |
| 4 August 2018 | CKC | JK | Enquire standards of sudden acceleration, harsh braking and tilt angle | Document no. 19.7 |
| 6 August 2018 | JK | CKC | Confirm standards are not normalised in western countries | Document no. 19.8 |
| 6 August 2018 | CKC | JK | Enquire whether any agreed standards in western countries | Document no. 19.9 |
| 17 August 2018 | CKC | JK | Enquire whether Openmatics has recommendations on standards and whether there are threshold values from other double decker bus operators | Document no. 19.10 |
| 17 August 2018 | CKC | JK | Seeking confirmation that criteria of European bus operators are running single decker buses only | Document no. 19.11 |
| 17 August 2018 | JK | CKC | Confirmed no recommendation for double decker buses. Not aware of any double decker bus operators using such thresholds | Document no. 19.12 |
| 17 August 2018 | JK | CKC | Confirmed that the European bus operators run single decker buses | Document no. 19.13 |

JK: Jan Kulis

CKC: Chun Kin Chan

19.3 Chronology and summary of emails between KMB and Alexander Dennis (Asia Pacific) Limited

19.3

| Date | Sender | Recipient | Summary | Reference |
|---------------|--------|-----------|--|--------------------|
| 29 March 2018 | SLH | AB | Enquire tilt angle threshold value for single and double decker buses | Document no. 19.14 |
| 28 May 2018 | SLH | AB | Request for suggestion on the setting of tilt angle value | Document no. 19.15 |
| 6 July 2018 | AB | SLH | Reply regarding setting threshold value | Document no. 19.16 |
| 2 August 2018 | SLH | AB | Enquire whether any advice was given to other bus operators regarding tilt alarm angle | Document no. 19.17 |
| 2 August 2018 | AB | SLH | Confirm no advice given to other bus operators | Document no. 19.18 |
| 3 August 2018 | SLH | AB | Enquire whether other double deck bus operators in other countries have adopted the tilt angle alarm | Document no. 19.19 |
| 3 August 2018 | AB | SLH | Confirm not aware of any other double decker bus operators who have adopted the tilt angle alarm | Document no. 19.20 |

SLH: Sai Lok Ho

AB: Andrew Boulton

19.4 Chronology and summary of emails between KMB and Volvo Bus Hong Kong Limited

19.4

| Date | Sender | Recipient | Summary | Reference |
|---------------|--------|-----------|---|--------------------|
| 29 March 2018 | SLH | SH | Enquire tilt angle threshold value for single and double decker buses | Document no. 19.21 |
| 28 May 2018 | SLH | JL | Enquire advice on tilt angle threshold value | Document no. 19.22 |
| 29 May 2018 | JL | SLH | Comments regarding tilt angle, passive roll stability control etc. | Document no. 19.23 |
| 2 August 2018 | SLH | JL | Enquire whether any advice was given to other bus operators regarding tilt alarm angle | Document no. 19.24 |
| 2 August 2018 | JL | SLH | Confirm comments and recommendations in email 29 May 2018 are official comments to Transport Department and bus operators | Document no. 19.25 |
| 3 August 2018 | SLH | JL | Enquire whether other double deck bus operators in other countries have adopted the tilt angle alarm | Document no. 19.26 |
| 6 August 2018 | JL | SLH | Confirm not aware of any other double decker bus operators who have adopted the tilt angle alarm | Document no. 19.27 |

SLH: Sai Lok Ho

JL: Julia Lo

From: Jan.Kulis@zf.com [mailto:Jan.Kulis@zf.com]
Sent: Thursday, August 02, 2018 9:44 PM
To: Chun Kin Chan SER
Cc: ales.hejl@zf.com; thomas.roesch@zf.com
Subject: RE: Criteria for triggering the alarms of Driver Feedback Device

Hello Mr. Chan,
 So the threshold values for Driver Feedback app from european operators are bellow:

| Alarm | Criteria for triggering the alarm (KMB) | Criteria that are used by bus operator 1 | Criteria that are used by bus operator 2 | Criteria that are used by bus operator 3 |
|---------------------|--|--|--|--|
| Engine Over Revving | Engine rpm > 3000 and no braking signal | Engine RPM > 1800 | Engine RPM > 2000 | Engine RPM > 1800 |
| Speeding | Vehicle speed > 70 km/h | Speed > 80 km/h | Speed > 102 km/h | Speed > 90 km/h |
| Excessive Idling | Vehicle speed < 1 km/h & Engine rpm > 500 & Duration > 15 minutes | Duration > 2 mins | Duration > 10 mins | Duration > 15 mins |
| Harsh Acceleration | Acceleration > 4 km/h/s (speed difference between 2 consecutive seconds) | 5 km/h | 7,2 km/h | 8 km/h |
| Harsh Braking | Deceleration > 7 km/h/s (speed difference between 2 consecutive seconds) | 3.6 km/h | 8 km/h | 8 km/h |
| Tilting | Tilt Angle > 44° | Tilt Angle > 10° | Tilt Angle > 15° | Tilt Angle > 15° |

The RPM needs to be always considered with gearbox (automatic vs manual) and vehicle / engine type in general.

Best regards, Jan K.

Jan Kuliš

System Engineering Teamleader

Openmatics s.r.o.

Poděbradova 2842/1

301 00 Plzeň, Česká republika/Czech Republic

Mobile: +420 602 271 575, Telefon/Phone +420 371 150-404, Telefax/Fax: +420 371 151-001

jan.kulis@zf.com

Jednatelé/Managing Directors: Thomas Roesch

Sídlo/Headquarter: CZ-301 00 Plzeň – Společnost zapsána v obchodním rejstříku Krajského soudu v Plzni, oddíl C, vložka 25324, IČO: 291 08 748, DIČ: CZ29108748

From: Chun Kin Chan SER
Sent: Friday, August 03, 2018 8:36 AM
To: 'Jan.Kulis@zf.com'
Cc: Kin Wang Leung OD; ales.hejl@zf.com; thomas.roesch@zf.com
Subject: RE: Criteria for triggering the alarms of Driver Feedback Device

Dear Mr. Jan Kulis,

Thank you very much for your help! I will pass this information to our management for further discussion.

Moreover, I think European bus operators only have single decker buses. Is it possible to also quote the criteria used by the bus operators with double decker buses, e.g. bus operators of the UK or Singapore?

Many thanks for your help again!
Chan Chun Kin (KMB)
3-Aug-2018

From: Chun Kin Chan SER [<mailto:chanchunkin@kmb.hk>]
Sent: 4. srpna 2018 13:28
To: Kulis Jan PLN OM-SLS
Cc: Kin Wang Leung OD; Hejl Ales PLN OM-SLS; Roesch Thomas PLN OM-ADM
Subject: Criteria for triggering the alarms of Driver Feedback Device

Dear Mr. Jan Kulis,

Would you please advise whether any standards on “sudden acceleration”, “harsh braking” and “tilt angle” have been set by countries or professional bodies?

Please reply my email by tomorrow (5-Aug-2018). I am sorry for the rush.

Many thanks for your help!
Chan Chun Kin (KMB)
4-Aug-2018

From: Jan.Kulis@zf.com [<mailto:Jan.Kulis@zf.com>]
Sent: Monday, August 06, 2018 2:30 PM
To: Chun Kin Chan SER
Cc: Kin Wang Leung OD; ales.hejl@zf.com; thomas.roesch@zf.com
Subject: RE: Criteria for triggering the alarms of Driver Feedback Device

Dear Mr. Chan,

As mentioned over WA, these criterias are not normalized, up to our knowledge , in west countries.

Best regards, Jan K.

From: Chun Kin Chan SER
Sent: Monday, August 06, 2018 2:42 PM
To: 'Jan.Kulis@zf.com'
Cc: Kin Wang Leung OD; ales.hejl@zf.com; thomas.roesch@zf.com
Subject: RE: Criteria for triggering the alarms of Driver Feedback Device

Dear Mr. Jan Kulis,

Can I interpret that there is no agreed standard in “sudden acceleration”, “harsh braking” and “tilt angle” in western countries (Europe and North America)?

Best regards,
Chan Chun Kin (KMB)
6-Aug-2018

From: Chun Kin Chan SER [<mailto:chanchunkin@kmb.hk>]
Sent: 17. srpna 2018 10:33
To: Kulis Jan PLN OM-SLS
Cc: Kin Wang Leung OD; Hejl Ales PLN OM-SLS; Roesch Thomas PLN OM-ADM
Subject: RE: Criteria for triggering the alarms of Driver Feedback Device

Dear Mr. Jan Kulis,

Please also clarify whether Openmatics has any recommendation on the thresholds of “sudden acceleration”, “harsh braking” and “tilt angle” for double decker buses.

Please also clarify whether any thresholds from other bus operators with double deckers can be referred.

Look forward to your reply.

Best regards,
Chan Chun Kin (KMB)
16-Aug-2018

From: Chun Kin Chan SER [<mailto:chanchunkin@kmb.hk>]
Sent: 17. srpna 2018 13:02
To: Kulis Jan PLN OM-SLS
Cc: Kin Wang Leung OD; Hejl Ales PLN OM-SLS; Roesch Thomas PLN OM-ADM
Subject: RE: Criteria for triggering the alarms of Driver Feedback Device

Dear Mr. Jan Kulis,

Would you please confirm the following three European operators (that you quoted for our reference) are running single decker buses only (i.e. they do not have any double decker buses)?

Many thanks for your help!
Chan Chun Kin (KMB)
17-Aug-2018

From: Jan.Kulis@zf.com [mailto:Jan.Kulis@zf.com]
Sent: Friday, August 17, 2018 5:51 PM
To: Chun Kin Chan SER <chanchunkin@kmb.hk>
Cc: Kin Wang Leung OD <k.w.leung@kmb.hk>; ales.hejl@zf.com; thomas.roesch@zf.com
Subject: RE: Criteria for triggering the alarms of Driver Feedback Device

Dear Mr. Chan,
Openmatics do not have any recommendation for double deckers threshold values for Driver Feedback app, as this is usually city-specific and bus-type specific issue.

I am not aware of any double decker bus operator using such thresholds.

Best regards, Jan

From: Jan.Kulis@zf.com [mailto:Jan.Kulis@zf.com]
Sent: Friday, August 17, 2018 7:35 PM
To: Chun Kin Chan SER <chanchunkin@kmb.hk>
Cc: Kin Wang Leung OD <k.w.leung@kmb.hk>; ales.hejl@zf.com; thomas.roesch@zf.com
Subject: RE: Criteria for triggering the alarms of Driver Feedback Device

Dear Mr. Chan,
Yes, these are single deckers.

Best regards, Jan K.

From: Sai Lok Ho SER
Sent: Thursday, March 29, 2018 7:03 PM
To: andrew.boulton@alexander-dennis.com
Cc: Kin Wang Leung OD; Chun Kin Chan SER
Subject: Tilt angle warning threshold value

Dear Andy,

Referring to the items "No. 2 passive roll stability control (audio/visual warning only)" in last working group meeting, could ADL please advise under normal bus operation, what tilt angle value should not exceed for both double deck & single deck bus types, so that we can set a threshold value for such a tilt angle warning device ?

Your prompt reply is appreciated.

Thanks and regards,

Ivan

From: Sai Lok Ho SER [<mailto:ivanho@kmb.hk>]
Sent: 28 May 2018 18:30
To: Andrew Boulton (Asia Pacific)
Cc: Kin Wang Leung OD; Chun Kin Chan SER
Subject: RE: Tilt angle warning threshold value

Dear Andy,

Could you please provide ADL's suggestion on the setting of such as tilt angle value ?

Thanks and regards,

Ivan

From: andrew.boulton@alexander-dennis.com [<mailto:andrew.boulton@alexander-dennis.com>]
Sent: Friday, July 6, 2018 6:46 PM
To: Sai Lok Ho SER
Cc: Kin Wang Leung OD; Chun Kin Chan SER
Subject: RE: Tilt angle warning threshold value

Dear Ivan

Thank you for your enquiry with respect to this matter.

Unfortunately, I am not able to recommend an angle that the bus could tilt to before a warning would be given to the driver. It is not possible to be able to evaluate this as the boundary conditions for stability will vary with the prevailing conditions. For example, a bus would behave very differently in the wet or dry conditions.

I also believe that the system would be fundamentally unable to deliver a suitable warning to the driver that would allow him to react in time to a dangerous situation.

Should the parameter be set too low then there would be a number of nuisance activations and the system would be habitually ignored. Should a warning be delivered at a significant angle of tilt, then it is likely that the driver would not have time to react or would be distracted by the warning at a time when he should be concentrating on rectifying the situation he finds himself in.

I'm sorry that I can not be of more help in this matter. Should you have any questions, please do not hesitate to ask.

Best regards

Andy

From: Sai Lok Ho SER [<mailto:ivanho@kmb.hk>]
Sent: 02 August 2018 14:40
To: Andrew Boulton (Asia Pacific)
Cc: Kin Wang Leung OD; Chun Kin Chan SER
Subject: RE: Tilt angle warning threshold value

Dear Andy,

Please confirm whether ADL recently has advised some other bus operators regarding to the value of this tilt alarm angle, and is differ from previous recommendation to us as in below email.

Thanks,

Ivan

“ADL to advise other bus operators adopting this tilt alarm. At what angle.”

From: andrew.boulton@alexander-dennis.com [<mailto:andrew.boulton@alexander-dennis.com>]
Sent: Thursday, August 2, 2018 2:44 PM
To: Sai Lok Ho SER
Cc: Kin Wang Leung OD; Chun Kin Chan SER
Subject: RE: Tilt angle warning threshold value

Good Afternoon Ivan

I am not aware of us advising any operator of this tilt angle and my previous comments below still stand.

Best Regards

Andy

From: Sai Lok Ho SER [<mailto:ivanho@kmb.hk>]
Sent: 03 August 2018 09:42
To: Andrew Boulton (Asia Pacific)
Cc: Kin Wang Leung OD; Chun Kin Chan SER
Subject: RE: Tilt angle warning threshold value

Dear Andy,

Do you aware any other double-deck bus operators, in any other countries, have dopted tilt angle alarm ?

Thanks and regards,

Ivan

From: andrew.boulton@alexander-dennis.com [mailto:andrew.boulton@alexander-dennis.com]
Sent: Friday, August 3, 2018 1:03 PM
To: Sai Lok Ho SER <ivanho@kmb.hk>
Cc: Kin Wang Leung OD <k.w.leung@kmb.hk>; Chun Kin Chan SER <chanchunkin@kmb.hk>
Subject: RE: Tilt angle warning threshold value

Good Afternoon Ivan

I am unaware of anyone adopting such a device.

Best Regards

Andy

From: Sai Lok Ho SER
Sent: Thursday, March 29, 2018 7:05 PM
To: scott.harvey@volvo.com
Cc: Kin Wang Leung OD; Chun Kin Chan SER
Subject: Tilt angle warning threshold value

Dear Scott,

Referring to the items "No. 2 passive roll stability control (audio/visual warning only)" in last working group meeting, could Volvo please advise under normal bus operation, what tilt angle value should not exceed for both double deck & single deck bus types, so that we can set a threshold value for such a tilt angle warning device ?

Your prompt reply is appreciated.

Thanks and regards,

Ivan

From: Sai Lok Ho SER [<mailto:ivanho@kmb.hk>]
Sent: 2018 年 5 月 28 日 6:28 下午
To: Lu Julia
Cc: Knight Jeremy; Harvey Scott; Kin Wang Leung OD; Chun Kin Chan SER
Subject: Tilt angle warning threshold value

Dear Julia,

Could you please provide Volvo's advice on the tilt angle threshold value as mentioned in items "No. 2 passive roll stability control (audio/visual warning only)" ?

Thanks and regards,

Ivan

From: Lu Julia [<mailto:julia.lu@volvo.com>]
Sent: Tuesday, May 29, 2018 8:58 AM
To: Sai Lok Ho SER
Cc: Knight Jeremy; Harvey Scott; Kin Wang Leung OD; Chun Kin Chan SER
Subject: RE: Tilt angle warning threshold value

Dear Ivan,

As advised in the response to the working group, we understand that TD's interpretation of the passive roll stability control (audio/visual warning) means the lateral acceleration sensing shall be with alarm activated.

Our comments is there will be only Cons as it will be very dangerous to have lateral acceleration sensing with alarm activated, we don't know what actions driver shall have, harsh braking or over steering, etc. We recommended there is I-coaching with Volvo telematics available to register driver's behavior as beneficial of fleet management system if customer request.

Tilt angle for DD is always meeting the regulation requirements as 28 degree.

If you refer to ESP, just want to clarify that ESP only operates on yaw rotation around the Y-axle. Which means that if a wheel will start to skid or loose grip, the brakes will be applied. There is no tilt angle connection to ESP.

Thanks, Julia

在 2018 年 8 月 2 日，14:32，Sai Lok Ho SER <ivanho@kmb.hk> 写道：

Dear Julia,

Please confirm whether Volvo recently has advised some other bus operators regarding to the value of this tilt alarm angle, and is differ from previous recommendation to us as in below email.

Thanks,

Ivan

“Volvo to advise other bus operators adopting this tilt alarm. At what angle.”

From: Lu Julia [<mailto:julia.lu@volvo.com>]
Sent: Thursday, August 2, 2018 3:01 PM
To: Sai Lok Ho SER
Cc: Kin Wang Leung OD; Chun Kin Chan SER
Subject: Re: Tilt angle warning threshold value

Dear Ivan ,

The comments you have below is our official comments to TD and to operators.

Thanks, Julia

发自我的 iPhone

From: Sai Lok Ho SER <ivanho@kmb.hk>
Sent: Friday, 3 August 2018 9:44 AM
To: Lu Julia <julia.lu@volvo.com>
Cc: Kin Wang Leung OD <k.w.leung@kmb.hk>; Chun Kin Chan SER <chanchunkin@kmb.hk>
Subject: RE: Tilt angle warning threshold value

Dear Julia,

Do you aware any other double-deck bus operators, in any other countries, have adopted tilt angle alarm ?

Thanks and regards,

Ivan

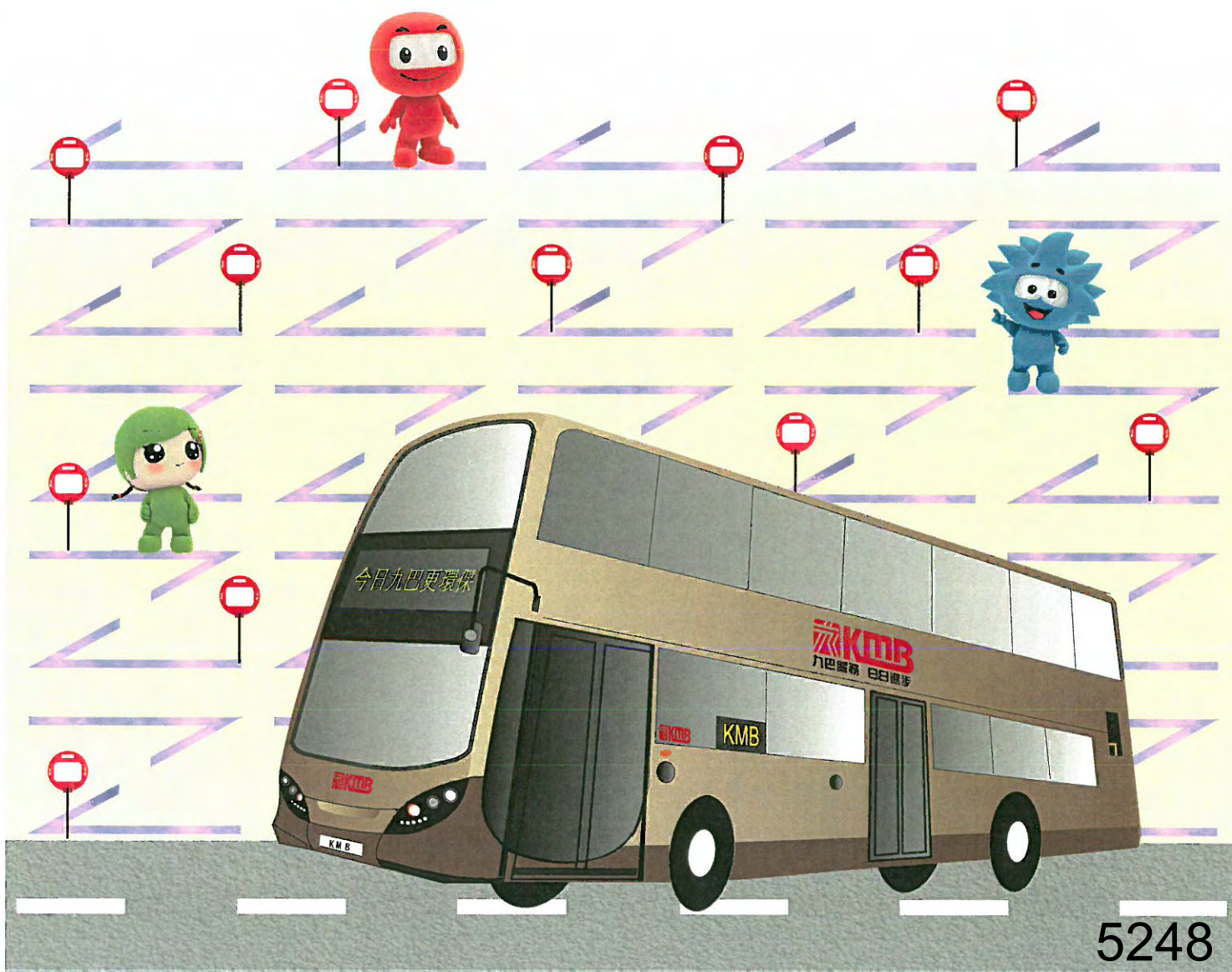
From: Lu Julia [mailto:julia.lu@volvo.com]
Sent: Monday, August 6, 2018 9:21 AM
To: Sai Lok Ho SER <ivanho@kmb.hk>
Cc: Kin Wang Leung OD <k.w.leung@kmb.hk>; Chun Kin Chan SER <chanchunkin@kmb.hk>
Subject: RE: Tilt angle warning threshold value

Dear Ivan,

We are not aware any other double-deck bus operators have adopted tilt angle alarm so far.

Thanks and regards, Julia

5 YEAR PLAN 2013 - 2017



8. BUS SAFETY

8.1 Introduction

8.1.1 Safety is the top priority in KMB's operations. Safety is enhanced through the strengthening of communication, documentation, training, deployment and performance monitoring as well as improvements in bus maintenance and design. Considerable efforts have also been made to promote traffic safety by passenger education and publicity.

8.1.2 This chapter includes an analysis of the types/causes of accidents for the past two calendar years (2010 and 2011) and the relationship of accident rates with respect to different factors, including bus captain age, length of service, and length of driving hours before the accident, bus types, etc.

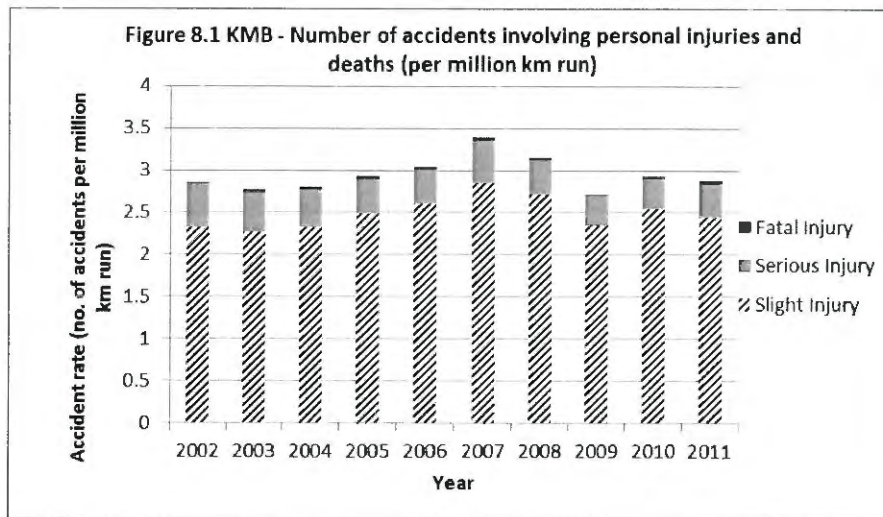
8.1.3 The chapter further discusses the various measures that have been or are being undertaken to promote safety.

8.2 Analysis of Bus Accidents in the Past Two Calendar Years

8.2.1 A comprehensive analysis of accident which occurred from November 2002 to October 2003 was presented in the report "Review on Safety Arrangements to Enhance Road and Passenger Safety" submitted to the Transport Department in February 2004. The analyses are repeated for the two-year period 2010 to 2011. The results are presented below.

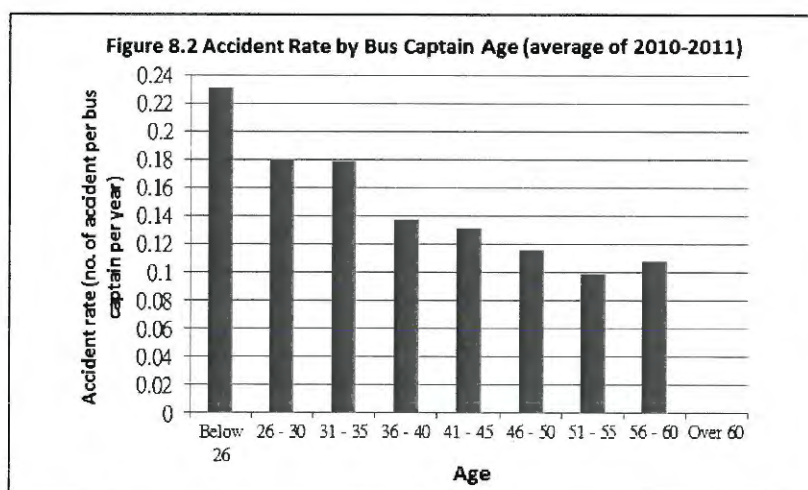
Trend of Accident Rates

8.2.2 Accident rates from 2002 to 2011 are shown in Figure 8.1. Following the increase in accident rate from 2004 to 2007, notable reductions were achieved in 2008 and 2009 as a result of concerted efforts to reduce accidents. In 2010, there was a slight increase of the figure. However, it dropped from 2.92 in 2010 to 2.87 in 2011 (as reported in Assessment for KMB Performance for 2011).



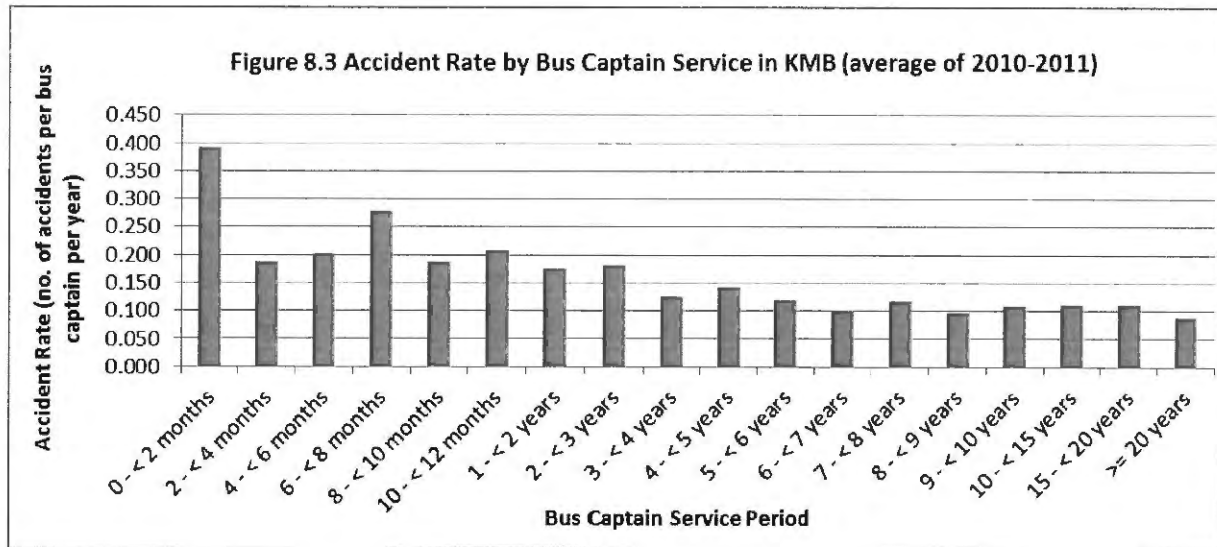
Accident Rate by Bus Captain Age

8.2.3 Results of the analysis of accident rate by bus captain age are shown in Figure 8.2. The results show that younger bus captains are more prone to higher accident rates, but this is mainly due to the fact that these bus captains have relatively less bus driving experience and they are more prone to accidents in their first few months of service. This is also shown in the relationship between accident rates and years of service.



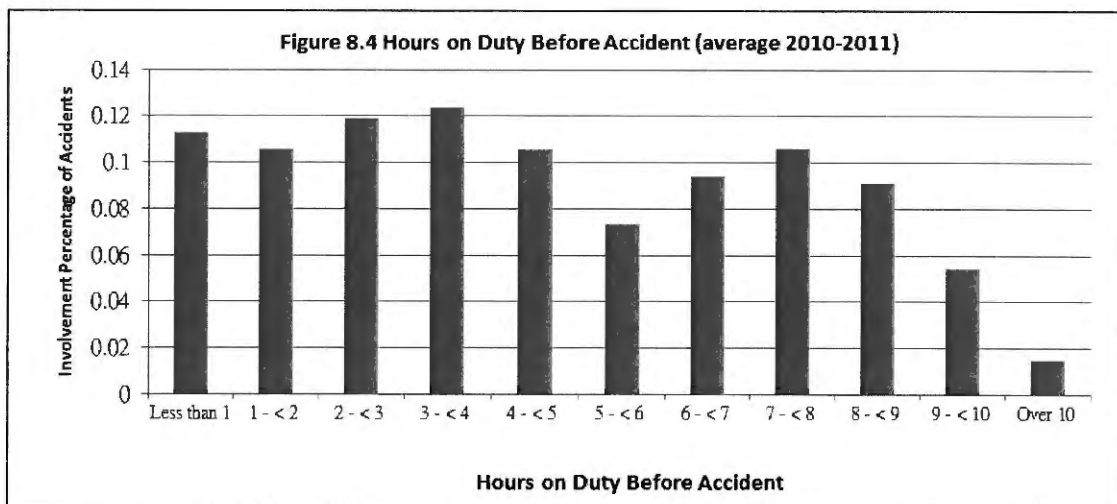
Accident Rate by Years of Service

8.2.4 The results of the analysis on accident rate by experience in terms of years of service in the Company are shown in Figure 8.3. As mentioned above, the likelihood of an accident occurring in the first few months after the newly recruitment is relatively higher. The accident rate then falls as experience is accumulated.



Accident Rate by Hours on Duty Before Accident

8.2.5 The analysis results in Figure 8.4 (below) show that there is no correlation between the occurrence of accident and the number of hours on duty before the accident.



Accidents by Nature

8.2.6 The results of the analysis of accident natures are shown in Table 8.1 below.

Table 8.1 Accidents by nature in percentage

| Accident nature | Percentage (%) |
|---|----------------|
| Head On/Tail Collision | 11.9% |
| Glancing Collision | 3.7% |
| Collision W/TP Veh (changing lane) | 11.0% |
| Collision With Other Veh (rolling back/forward/reversing) | 0.4% |
| J/O Collision | 4.9% |
| Entering R/A Collision | 0.2% |
| Hit St. Obj/Veh/Animal | 2.0% |
| Bus Overturn/Topple | 0.0% |
| Injury To Pedestrian | 7.3% |
| Injury To Alighting/Boarding Passenger | 2.7% |
| Passenger Loss Of Balance | 52.9% |
| Injury To Passenger Inside Bus | 1.7% |
| Others | 1.0% |
| Total: | 100% |

8.2.7 The results are expressed in terms of percentage of accidents during the two years 2010-2011. The majority of the accidents (52.9%) were due to passengers losing balance while on the bus. More than half of these cases were caused by the bus braking in traffic. Accidents with injuries sustained as a result of different kinds of collisions account for 32.3% while accidents with injury to pedestrians account for about 7.3% of all the accidents.

8.2.8 KMB however does not have the contributory factors of traffic accidents categorized as stated in Annex E (II) in the letter from the Transport Department Ref. BD 76/50 dated 31 May 2012. The breakdown by our classification of accident natures from 2009 to 2011 is as follows:

Table 8.2 Accident by nature

| Accident Nature | No. of Accidents | | |
|--|------------------|------------|------------|
| | 2009 | 2010 | 2011 |
| Head On / Head Tail Collision | 125 | 119 | 115 |
| Glancing Collision | 32 | 30 | 43 |
| Collision with Vehicle Changing Lane | 89 | 101 | 115 |
| Collision at Junction | 61 | 44 | 53 |
| Collision at Roundabout | 3 | 0 | 4 |
| Collision while Bus / Other Vehicle Reversing | 2 | 4 | 4 |
| Hitting Stationary Object | 13 | 23 | 17 |
| Overturn/Topple | 1 | 0 | 0 |
| Injury to Pedestrian | 60 | 73 | 69 |
| Injury to Boarding/Alighting Passenger | 24 | 22 | 32 |
| Passenger Loss of Balance | 529 | 545 | 492 |
| Injury to Passenger Inside Bus - Other Natures | 12 | 21 | 13 |
| Others | 7 | 12 | 8 |
| Total: | 958 | 994 | 965 |

Accidents by Liability

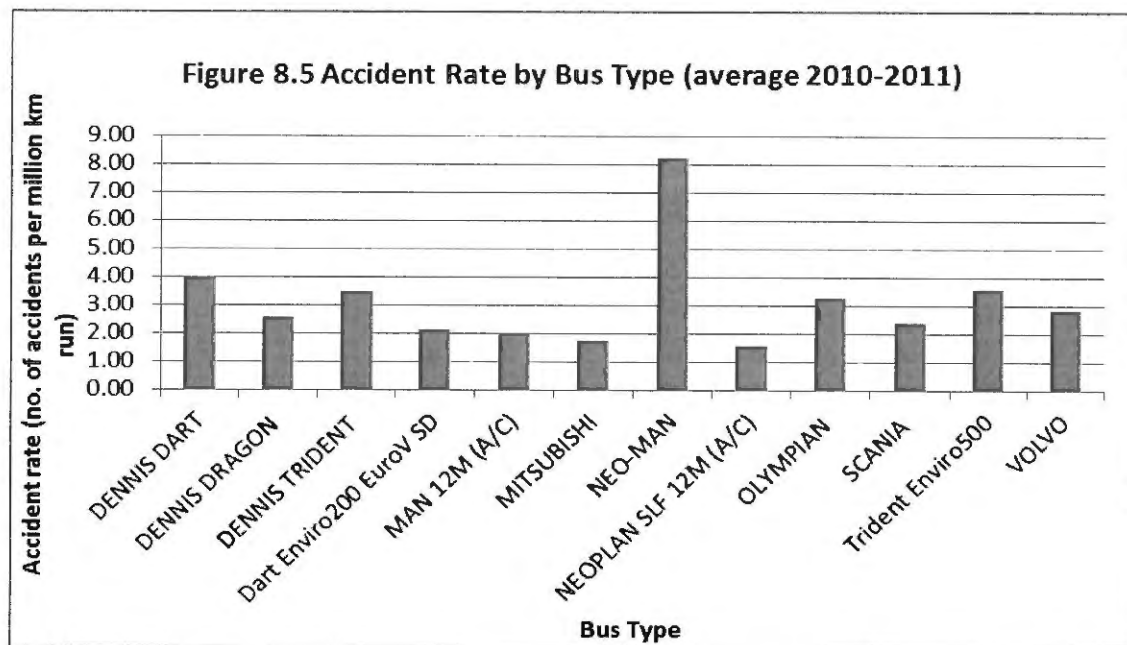
8.2.9 The breakdown of liability in the two-year period is shown in Table 8.3 below. For 81.7% of the cases, the bus captains were not blameworthy. The pending cases (about 0.5%) are those pending Police action and/or court ruling.

Table 8.3 Accident by Liability of Bus Captain

| Liability of KMB Bus Captain | Percentage (%) |
|------------------------------|----------------|
| Negligent | 17.8 |
| Innocent | 81.7 |
| Pending | 0.5 |
| Total: | 100 |

Accidents by Bus Type

8.2.10 Accidents by bus type were also analysed and the results are shown in Figure 8.5. It is noted that the accident rate for bus type (NEO-MAN) was the highest. However, this bus type was not commonly used in KMB and the total kilometres operated were extremely low. In fact, the general results are not significant to show any direct relationships between accident rate and bus type, and the differences among bus types can be attributable to operating environment (e.g. route) and other factors.



8.2.11 The percentage of duties in KMB that involve bus or route hopping is very small (8.4% and 18.1% respectively) as at the end of April 2012. Bus captains are deployed to these duties only if they have received the relevant bus type and route training.

Number of Non-collision Franchised Bus Accidents involving passenger casualty

8.2.12 As requested by the Transport Department as per Annex E (I) in letter Ref. BD 76/50 dated 31 May 2012, the breakdown of the number of non-collision accident involving passenger casualty is provided as follows :

| | Number of Non-collision Franchised Bus Accidents involving passenger casualty | Percentage over all accidents involving franchised buses | No. of accidents involving passenger losing balance on stairway (No. of casualty) (i) | No. of accidents involving passenger injured by door (No. of casualty) (ii) | No. of accidents involving passenger losing balance elsewhere except (i) & (ii) (No. of casualty) (iii) |
|------|---|--|--|--|--|
| 2011 | 537 | 55.6% | 122 | 23 | 392 |

8.3 Bus Captain Training and Monitoring

8.3.1 As part of KMB's dedication to provide safe, reliable and comfortable services for our passengers, comprehensive systems of bus captain training and monitoring have been set up in KMB. Elements of defensive driving, good driving attitude and emergency handling are incorporated in the various training courses. Driving performance monitoring is carried out with systematic checking by performance assessors, driving instructors and mystery passengers, and followed up with disciplinary actions if required.

8.3.2 KMB buses have various safety related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed or are being installed on buses.

- Since November 2009, laser gun checks have been strengthened in various areas. The pass rate of laser gun checks shows an upward trend, going up from 97.95% in December 2010 to 98.91% in April 2012. In view of the effectiveness of this arrangement, KMB has strengthened the laser gun checks by increasing the checks to twelve days per month (including both day and night).
- The electronic tachographs have been used to monitor bus captain performance, especially with regard to speeding (see paragraph 8.8.9 for details).

8.3.3 In order to enhance bus captains' ability to deal with emergency incidents such as "dashing out" of pedestrians onto the carriageway, and to improve bus ride comfort, a state-of-the-art driving simulator studio was launched in the KMB Bus Captain Training School at the end of 2007.

8.3.4 To enhance the recruitment of suitable new bus captains, apart from driving record checks, a personality test for bus captain applicants has been introduced since the second half of 2007.

8.3.5 Details of training provided to new and serving bus captains are given in Annex 8.1.

8.3.6 Bus captains who are involved in serious traffic accidents will be suspended from driving duty and referred to receive professional counselling service. Remedial driving training will also be arranged for them.

8.3.7 To prevent similar traffic accidents from recurring, bus captains who are involved in liable traffic accidents resulting in injury are referred to our Bus Captain Training School to attend Safety Enhancement Training. The training course includes defensive driving concept, simulator training, case study, experience sharing and assessment.

8.3.8 Communication channels with staff and labour unions are well established and these channels facilitate exchange of views on issues including safety.

8.3.9 As a safety enhancement measures, the Company has appointed a professional counselling service provider to operate a 24-hour Hotline (傾心線) for our staff and their immediate family members, including spouse and children, to raise and discuss any problems or difficulties they may encounter in their daily lives. The purpose is to provide a channel for staff members to relieve pressure and seek help from independent professional counsellors. The discussions are strictly confidential and contents will not be revealed to the Company. The Company also organises a series of seminars on health and disease prevention for its staff members with the aim of raising their awareness of the importance of healthy living.

8.4

Rostering, Scheduling and Duty Dispatch

8.4.1 KMB follows rostering, scheduling and duty dispatch systems which fully comply with the Transport Department Guidelines on Driver Working Hours. The systems also ensure that only bus captains who satisfy training requirements are assigned to duties.

8.4.2 Arrangements are made to assign new bus captains to easy routes in the first few months of appointment to allow a period of familiarisation and settling in.

8.4.3 In order to help new bus captains adapt to the new working environment, a “New Bus Captain Assistance Group” was established in June 2009. During the introductory session provided to new bus captains, enquiry hotlines regarding bus operational and mechanical aspects are provided to new bus captains. They are also introduced with experienced staff as their mentors in their first three months of appointment. In addition, regular sharing meetings are organised for new bus captains with the presence of management staff. The objective is to give supports to new bus captains such that they can get familiar with daily operation. A hotline is available at the Bus Captain Training School for new bus captains to obtain driving skills consultation from driving instructors.

8.4.4 Ongoing adjustment in journey time, layover time and meal break is made with the solicited input from frontline staff.

8.4.5 The “Guidelines on Bus Captain Working Hours, Rest Time and Meal Breaks” has been revised and implemented in October 2010. While KMB will do the best to meet Transport Department’s implementation timeline on the new meal break and working time arrangements, KMB reiterates that safety should be the pre-requisite and there should be no compromise on bus captain hiring and training quality because of the accelerated timeline, including, but not limited to, the number of training days, new bus captain intake quality, readiness and quality of new instructors, resources dedicated to ongoing safety improvement initiatives.

8.5

Bus Maintenance and Safety Features

8.5.1 All KMB buses are subject to a maintenance and quality assurance system which aims to keep the buses in top conditions.

8.5.2 The buses have various safety related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed or are being installed on KMB buses.

8.5.3 At the request of Transport Department, seat belts have been retrofitted at the four seats on the first row on the upper deck of post-1997 design buses. Furthermore, guard rails have been installed across the upper deck windscreen of the pre-1997 design buses. The improvement works were completed in December 2007 and April 2008 respectively.

8.5.4 Regarding the further request from the Transport Department of retrofitting of double hand rails on double deck buses with straight staircases (part D(g) as per letter ref. () in BDC 76/50 dated 12 June 2009), 2 buses with straight staircases fitted with double hand rail have been put into service while all new buses with straight staircase will have the double hand rails fitted. The retrofit of double handrails for 555 SLF buses with straight staircases has been completed by end of 2011. As at 30 April 2012, there are 847 SLF buses with straight staircase and all are fitted with double handrails.

8.5.5 234 buses have been installed with interlock as a trial scheme in 2011. The interlock function prohibits the buses from moving unless the front doors are fully closed. The aim of this trial is to explore the opportunity for reduction of traffic accidents due to passenger loss of balance.

8.5.6 To help reducing accident of elderly passengers due to losing balance on board, the new bus specifications have included continuous railing, extending from the entrance to as far as possible, as a basic feature. This new design allows passengers to hold on to a handrail as they move towards the priority seats or inner part of the bus.

8.6

Promotion of Passenger Safety

8.6.1 Safety awareness among bus captains is promoted by means of in-house videos, safety messages on waybills, internal magazine (i.e. KMB Today), safety tips broadcast on monitors in depots and staff website, as well as the annual *KMB Bus Captain of the Year Competition*. Game booths with tongue twister “Safety-first in KMB” and “Care for the Elderly” puzzles have been conducted in 2011.

8.6.2 Various projects to educate the public and passengers on the safe use of bus services have been undertaken. These include Announcements of Public Interest, education video and TV commercials. In addition, on-board stickers and messages remind passengers of safety precautions.

8.6.3 Continuous monitoring of accident data and review of procedures and systems to enhance safety are being undertaken with internal cross-departmental meetings and participation in the Road Safety Forum for Franchised Buses organised by Transport Department.

8.6.4 Education of passengers on the importance of road safety and safety on buses will continue in the form of posters and reminders on buses, and using the Bus Stop Announcement System. This will be supplemented by education videos and TV commercial campaigns from time to time. By mid-March 2009, safety messages of “Please hold the handrail” and “Please take care of children and elderly” have been inserted into the Bus Stop Announcement System on all KMB buses for automatic announcement at specific bus stops to remind passengers.

8.6.5 KMB produced its first “Bus Captain Safe Driving Handbook” and distributed to all bus captains in October 2009. To strive for continual improvement, the second edition has been published in June 2011 to supersede the obsolete one subsequent to the regular review. The new handbook includes driving regulations and points to note about safe driving, covering every aspect of bus captains’ daily work. It is aimed at assisting bus captains in establishing a proper safe driving attitude, and taking every practical step that can achieve safe driving, to ensure the safety of passengers and other road users.

8.6.6 “Care for the Elderly Poster Design Competition” was launched by KMB in September 2010 to enhance public awareness of caring for the elderly. Open to all primary school students, the competition received a positive response from primary schools with more than 2,000 entries. The prize presentation ceremony was held in December 2010. The posters designed by the champion, first runner-up and second runner-up in each section, were displayed on a bus body banner on three buses from December 2010 to April 2011.

8.6.7 Providing passengers, especially the elderly, with safe bus journeys has always been KMB’s first priority. To promote the message of care for the elderly, promotional leaflets are distributed at over 150 bus termini, homes for elderly, shopping centres and KMB Customer Service Centres to enhance public awareness of safety for elderly passengers. The leaflet carries images of some of the winning posters in the “Care for the Elderly – Poster Design Competition”, which was open to all primary school students. Using different drawings and slogans, passengers were reminded to take care of the elderly when travelling on buses by offering their seats and holding the handrails, as well as by a general show of care and concern, thus helping to contribute to safe and comfortable bus journeys.

8.6.8 To demonstrate commitment on safety, a new Safety Policy was established and approved in January 2011. Briefings to all relevant staff on new Safety Policy were completed in February 2011.

8.6.9 In line with its tradition of providing safe and reliable bus services, especially for those with special needs, such as the elderly, the disabled, pregnant women and infants, KMB launched a “priority seats” trial scheme in May 2011. 8 bus routes are selected and the priority seats are equipped with a newly-designed headrest for easy recognition. Publicity in the form of posters on buses and messages on RoadShow’s Multi-media On-board service will help raise public awareness and encourage more passengers to give their seats to people in need. A new poster entitled “Care for the Elderly” is also displayed in the bus compartment, in the hope of encouraging passengers to express their concern for passengers in need by offering their seats. Through the provision of priority seats, passengers in needs can enjoy a safer and more pleasant bus journey. KMB aims to complete fleet-wide adoption of this scheme by the end of 2012.

8.6.10 KMB will launch a series of publicity programmes on bus safety by means of district events, press events and advertising campaigns. These programmes include sponsoring district-based safety campaigns, press sessions and press releases, advertising through channels such as bus body advertisements, bus shelter posters and TV commercials, as well as publicity in the KMB website and the corporate magazine “KMB Today”. In 2011, frontline staff, in collaboration with police representatives, have distributed safety leaflets and environmental friendly bags bearing the “Hold the Handrail – Safety First” message to elderly passengers at some bus stops.

8.6.11 A “Safety Ambassador” campaign has been newly launched in 2011. This campaign cascades down safety messages to the frontline staff in bus termini. As a result, 20 bus termini have been visited with the theme “Safety-first in KMB” in 2011.

8.7 Programmes for elderly and persons with disabilities

8.7.1 To further promote a caring culture, KMB launched a “priority seats” trial scheme in May 2011 involving 87 buses operating on eight routes to encourage passengers to offer their seats to people in need. The programme has been so well received that KMB has decided to launch the scheme fleet wide on some 3,800 buses. To tie in with the colour of the bus seats, the headrest will be deep purple in colour, featuring the images of the elderly, pregnant women, babies and people with disabilities. A “seat-offering” hand sign is also incorporated with the words “Thought of Giving Your Seat?” to remind passengers of their civic duty. The installation programme is expected to be completed in 2012. KMB will also produce a new video clip to raise the safety awareness of its bus captains internally, with the aim of continually improving on its passenger safety.

8.7.2 To promote operational safety and share the experience of safe driving, representatives of the Police will be invited to conduct a series of tailor-made Road Safety workshops.

8.7.3 To further enhance safety awareness among elderly passengers, KMB will launch a series of promotional activities in conjunction with Police. These include visit bus stops frequently used by elderly to remind them to hold handrail whilst riding on buses.

8.8 Measures to be taken

8.8.1 KMB proposes to use the 3-year average of 2009 to 2011 actual accident involvement rate of 2.83 (defined as the number of buses involved in accidents per million km operated) as a target for the purpose of this Five- Year Plan period. According to the figures in 2010 and 2011, 81.7% of the cases revealed that our bus captains were not blameworthy (see paragraph 8.2.7 for detail).

8.8.2 The current system of bus captain training will continue with regular review of the training course objectives and contents.

8.8.3 The performance monitoring system will continue to uphold driving and safety standards.

8.8.4 The existing rostering, scheduling and duty dispatch systems are working well and fully comply with Transport Department's guidelines for driver working and driving hours. These current systems and practices will be maintained, with ongoing fine tuning in response to staff feedback and enhancement using available technology.

8.8.5 All KMB buses are subject to a stringent maintenance and quality assurance system which keeps the buses in good roadworthy conditions. The existing maintenance and quality assurance system will be continued.

8.8.6 Speed limiting devices have been a standard feature of all KMB buses.

8.8.7 The electronic tachographs satisfy the Transport Department's requirements for electronic data recording device issued by VSSD dated 17th October 2003. They are now being used to monitor bus captain performance, especially with regard to speeding.

8.8.8 The electronic tachograph is standard equipment on new buses. At the end of April 2012, a total of 3,878 KMB buses (99.3% of fleet) were installed with electronic tachographs. The remaining 29 buses were old buses which were scheduled for scrapping in 2012. These buses mostly operate in the urban areas.

8.8.9 KMB has created a database of “Driving Tips in Special Attention Areas”. The database provides structured instructions and tips on best driving practices for all bus captains driving on particular routes, so that expertise and knowledge of the most experienced bus captains can be effectively transferred to all others. To promote bus captains’ awareness of safe driving, all relevant bus routes are listed in the database, supplemented by photos and layout drawings for easy reference.

8.8.10 The existing systems of Safety Bonus and Safety Awards will continue to positively promote safety awareness among bus captains. Safety awareness is to be emphasised in communications in in-house videos and staff website, safety messages on waybills, the *KMB Bus Captain of the Year Competition*, safety tips broadcast in depots, visual presentations of wreckages of past accidents and posting of accident numbers and accident rates at duty dispatch offices.

In addition to the existing individual safe driving award, route-based awards on bus safety are newly introduced in 2010 to encourage frontline staff to strive for continual improvement in bus safety performance.

8.8.11 In 2010, KMB’s commitment to enhance safety and service quality was demonstrated by the establishment of Safety and Service Quality Department. The Department was established in September 2010 to specifically focus on driving KMB towards internationally recognised safety standard.

8.8.12 Alcoholic Breathing Test has been introduced randomly to Bus Captains since October 2010 in order to enhance the message of “If you drink, don’t drive”. This practice will continue to enhance bus captains’ safety awareness.

8.8.13 To promote bus operation safety and share the driving safety message, representatives of the Police are regularly invited to conduct a series of Road Safety workshops. Consequently, six workshops have been organized with over 130 participants joined the workshops in 2011.

8.8.14 For the purpose of reducing accident rate arising from loss of balance, frontline staff will take appropriate actions to proactively regulate the behaviour of passengers in need. The intervention program was developed in August 2010 and extended to all bus routes in May 2011.

8.8.15 To provide a good foundation for a safety culture, a strategic plan is in place for developing, implementing and reviewing a safety management system that goes beyond legal and statutory requirements. Fit-for-purpose safety management system will be established based on Occupational Health and Safety Assessment Series (“OHSAS”) 18001 Safety Management System. Awareness training for OHSAS 18001 was provided between April and May 2011 in order to enhance the basic safety knowledge of staff. OHSAS 18001 internal audit training was also provided in November 2011 to train up some maintenance and operations staff such that they are competent to carry out internal safety audit.

8.8.16 KMB will continue to review and consider the retrofit of safety features as necessary to the vehicles to enhance road and passenger safety.

8.8.17 Internal meetings will continue to be held regularly to monitor accident statistics and propose methods of accident reduction.

8.8.18 KMB will continue to participate in the Road Safety Forum for Franchised Buses organised by Transport Department, and will continue to communicate with Transport Department on road safety issues.

8.8.19 Fostering safety culture is a key to get the commitment from staff at all levels. To enhance communication between bus captains and the management, Frontline Operations Supporting Team (FOST) has been newly established. The team encourages two-way communication on various topics, i.e. safety messages, case sharing, feedback/idea collection, etc.

8.8.20 A fit-for-purpose safety management system has been established in December 2011 based on Occupational Health and Safety Assessment Series (“OHSAS”) 18001 requirements. KMB also adopted a “Plan-Do-Check-Act”(PDCA) approach, which aims at continual improvement in the safety performance of all aspects of business and sustained operational excellence.

Annex 8.1

A. Regular Training for New Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|-----------------------------|---|----------------------------|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for the Transport Department class 17 licence test and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident black spot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus type familiarisation and route training (night drive included).</p> | 18 days full time | Before posting to duty | 3 routes 3-4 bus types |
| 2. | Special Facilities Training | With the assistance of a simulated bus model, bus captains are trained on the operation of Octopus System, Bus Stop Announcement System, Destination Signboard and Fare Display. | Included in Basic Training | Before posting to duty | Not applicable |
| 3. | Simulation training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response action. | Included in Basic Training | Before posting to duty | Not applicable |

B. Regular Training for Serving Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|------------------------------|---|---|---|--|
| 1. | Driving Enhancement Training | Experienced bus captains are trained on areas of defensive driving techniques to avoid traffic accident as well as advanced skills in bus manoeuvres. Service enhancement training is also included. | 1 day full time | For experienced bus captains. | 1 route & highway training 1 bus type |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 to 6 days full time | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | 1 route 1 bus type |
| 3. | Route Training | All bus captains will be trained before being posted to a specific route | 1 day full time | As needed | 1 route 1 bus type |
| 4. | Bus Type Training | All bus captains will be trained before being posted to drive a specific bus type | 1 day full time | As needed | 1 route 1 bus type |
| 5. | Safety Enhancement Training | As a corrective measure to prevent similar traffic accident from recurring, it is anticipated that the driving skill and driving attitude of bus captains concerned can be enhanced after receiving the training | 1.5 hours | For bus captains involved in liable traffic accident resulting in injury | Not applicable |
| 6. | Simulator Training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response actions. | Included in Driving Enhancement Training, Remedial Training and Safety Enhancement Training | Included in Driving Enhancement Training, Remedial Training and Safety Enhancement Training | Not applicable |

5 YEAR PLAN 2014 - 2018



5267

8. BUS SAFETY

8.1 Introduction

8.1.1 Safety is the top priority in the operation of the KMB. Safety is enhanced through the strengthening of communication, documentation, training, deployment and performance monitoring as well as improvements in bus maintenance and design. Considerable efforts have also been made to promote traffic safety by passenger education and publicity.

8.1.2 This chapter includes an analysis of the types/causes of accidents for the past two calendar years (2011 and 2012) and the relationship of accident rates with respect to different factors, including bus captain age, length of service, and length of driving hours before the accident, bus types, etc.

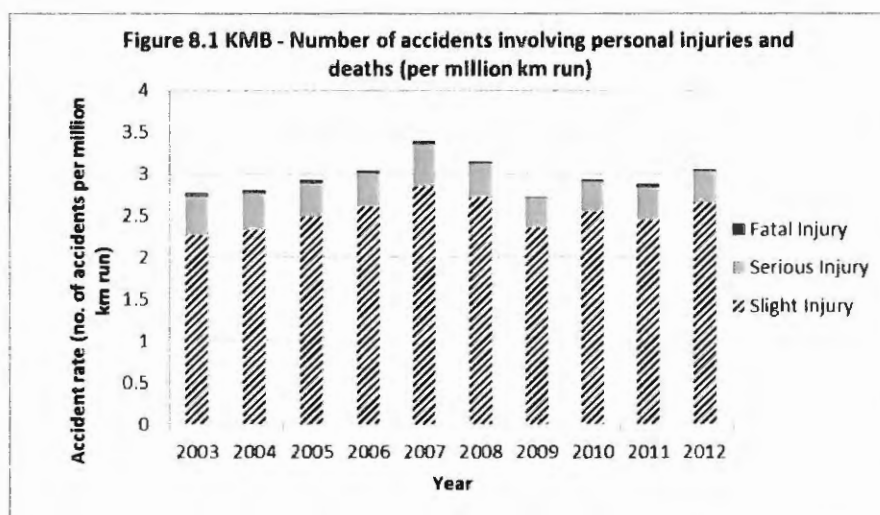
8.1.3 The chapter further discusses the various measures that have been or are being undertaken to promote safety.

8.2 Analysis of Bus Accidents in the Past Two Calendar Years

8.2.1 The analyses for the two-year period 2011 to 2012. The results are presented below.

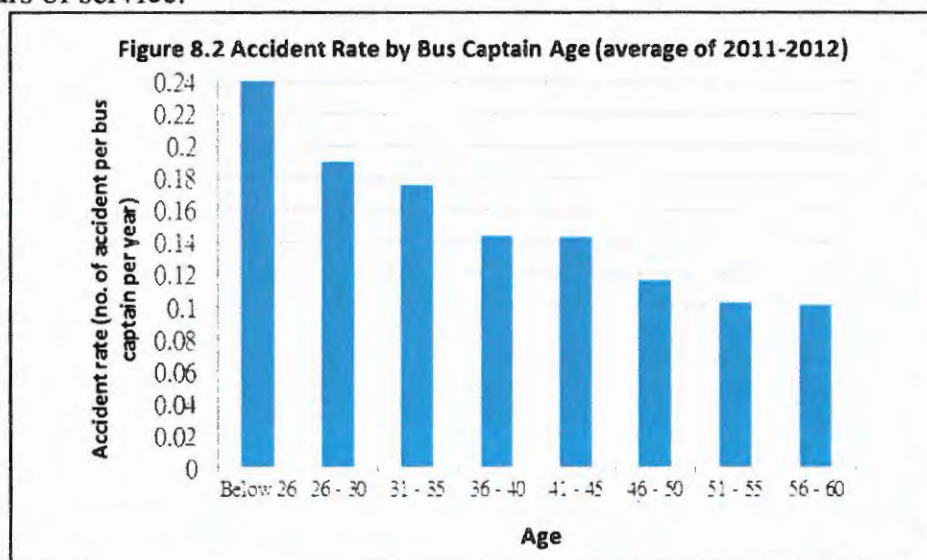
Trend of Accident Rates

8.2.2 Accident rates from 2003 to 2012 are shown in Figure 8.1. Following the increase in accident rate from 2004 to 2007, notable reductions were achieved in 2008 and 2009 as a result of concerted efforts to reduce accidents. The figures from 2009 to 2012 were kept at a better performance than 2008.



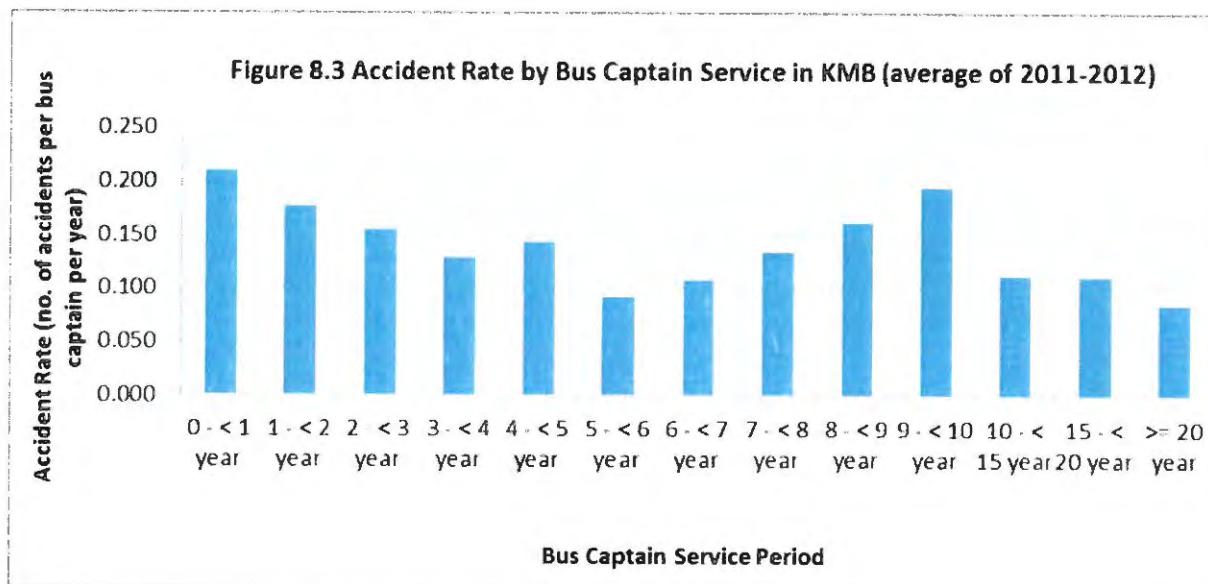
Accident Rate by Bus Captain Age

8.2.3 Results of the analysis of accident rate by bus captain age are shown in Figure 8.2. The results show that younger bus captains are more prone to higher accident rates, but this is mainly due to the fact that these bus captains have relatively less bus driving experience and they are more prone to accidents in their first few months of service. This is also shown in the relationship between accident rates and years of service.



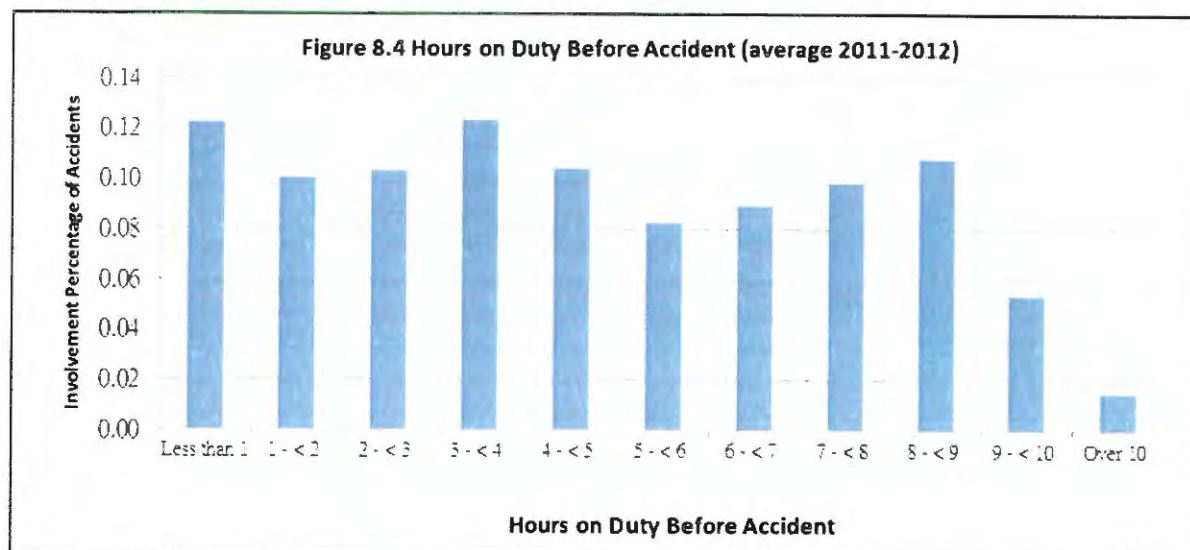
Accident Rate by Years of Service

8.2.4 The results of the analysis on accident rate by experience in terms of years of service in the Company are shown in Figure 8.3. As mentioned above, the likelihood of an accident occurring in the first year immediately following recruitment is relatively higher. The accident rate then falls as experience increases. However, there is an upward trend for bus captains with driving experience from 5-10 years. A group of bus captains recruited in 2002-2003 had poor driving performance compared with others. Close monitoring and training would be provided to those bus captains.



Accident Rate by Hours on Duty Before Accident

8.2.5 The analysis results in Figure 8.4 (below) show that there is no correlation between the occurrence of accident and the number of hours on duty before the accident.



Accidents by Nature

8.2.6 The results of an analysis of accident nature are shown in Table 8.1 below. The results are expressed in terms of percentage of accidents during the two years 2011-2012.

Table 8.1 Accidents by nature in percentage

| Accident nature | Percentage (%) |
|---|----------------|
| Head On/Tail Collision | 13.1% |
| Glancing Collision | 4.2% |
| Collision with Third Party Vehicle (changing lane) | 11.6% |
| Collision With Other Vehicle (rolling back/forward/reversing) | 0.5% |
| Junction Collision | 5.6% |
| Entering Roundabout Collision | 0.3% |
| Hit Stationary Object/Vehicle/Animal | 1.7% |
| Bus Overturn/Topple | 0.0% |
| Injury To Pedestrian | 6.3% |
| Injury To Alighting/Boarding Passenger | 3.2% |
| Passenger Loss Of Balance | 51.5% |
| Injury To Passenger Inside Bus | 1.3% |
| Others | 0.8% |
| Total: | 100% |

8.2.7 The majority of the accidents (51.5%) were due to passengers losing balance while on the bus. More than half of these cases were caused by the bus braking in traffic. Accidents with injuries sustained as a result of different kinds of collisions accounted for 35.3% while accidents with injury to pedestrians accounting for 6.3% of all the accidents.

8.2.8 The breakdown by our classification of accident nature from 2011 to 2012 is as follows:

Table 8.2 Accidents by nature

| Accident Nature | No. of Accidents | |
|---|------------------|-------------|
| | 2011 | 2012 |
| Head On / Head Tail Collision | 115 | 148 |
| Glancing Collision | 43 | 42 |
| Collision with Vehicle Changing Lane | 115 | 119 |
| Collision With Other Vehicle (rolling back/forward/reversing) | 4 | 7 |
| Collision at junction | 53 | 59 |
| Entering roundabout Collision | 4 | 2 |
| Hitting Stationary Object | 17 | 17 |
| Overturn/Topple | 0 | 0 |
| Injury to Pedestrian | 69 | 57 |
| Injury to Boarding/Alighting Passenger | 32 | 32 |
| Passenger Loss of Balance | 492 | 545 |
| Injury to Passenger Inside Bus - Other Natures | 13 | 13 |
| Others | 8 | 8 |
| Total: | 965 | 1049 |

Accidents by Liability

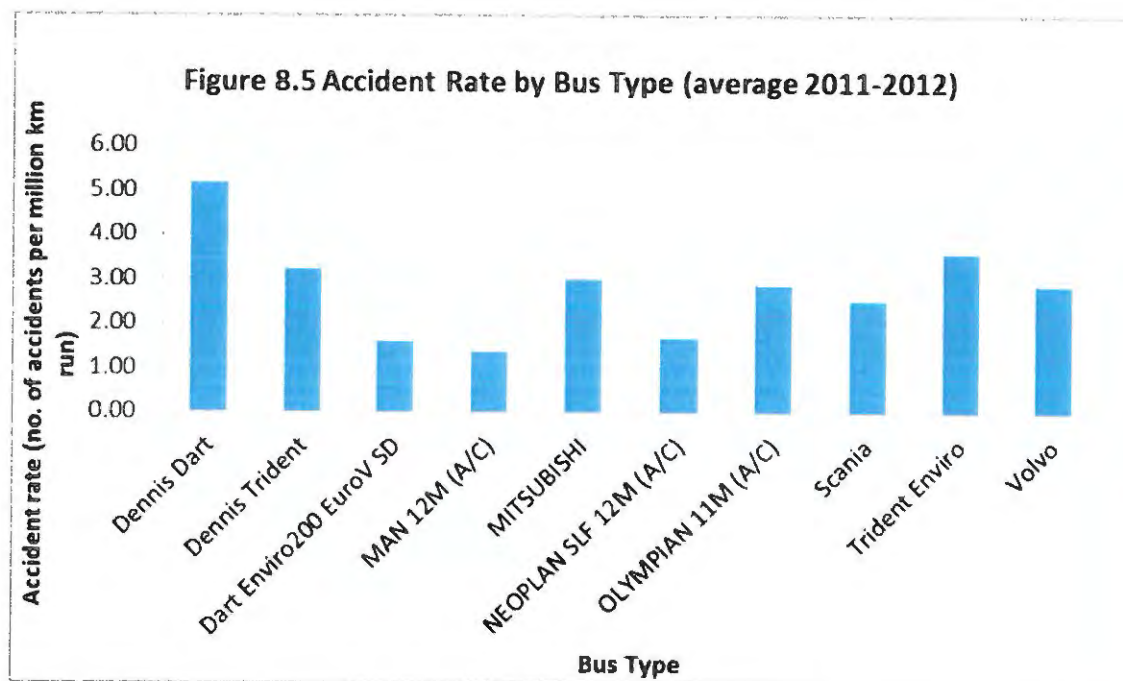
8.2.9 The breakdown of liability in the two-year period is shown in Table 8.3 below. For 80% of the cases, the bus captains were not blameworthy. The pending cases (about 0.6%) are those pending Police action and/or court ruling.

Table 8.3 Accidents by Liability of Bus Captain

| Liability of KMB Bus Captain | Percentage (%) |
|------------------------------|----------------|
| Negligent | 19.4 |
| Innocent | 80.0 |
| Pending | 0.6 |
| Total: | 100 |

Accidents by Bus Type

8.2.10 Accidents by bus type were also analysed and the results are shown in Figure 8.5. It is noted that the accident rate for bus type (Dennis Dart) was the highest. However, the general results are not significant enough to show any direct relationships between accident rate and bus type, and the differences among bus types can be attributable to operating environment (e.g. route), roads, bus captains and other factors.



8.2.11 The percentage of duties in KMB that involve bus or route hopping was (15.9% and 20.1% respectively) as at the end of April 2013.

8.2.12 The breakdown of the number of non-collision accident involving passenger casualty is provided as follows:

Table 8.4 Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty

| | Number of Non-collision Franchised Bus Accidents involving passenger casualty | Percentage over all accidents involving franchised buses | No. of accidents involving passenger losing balance on stairway (No. of casualty) (i) | No. of accidents involving passenger injured by door (No. of casualty) (ii) | No. of accidents involving passenger losing balance elsewhere except (i) & (ii) (No. of casualty) (iii) |
|------|---|--|--|--|--|
| 2012 | 590 | 56.2% | 138 | 30 | 422 |

Accidents by experience of the bus captains on the route

Table 8.5 Accidents by Experience of the Bus Captains on the Route

| Experience of the bus captains on the route (Year) | Distribution of accidents from 2011-2012 (%) |
|--|--|
| 0-<1 | 31.1% |
| 1-<2 | 10.9% |
| 2-<3 | 7.1% |
| 3-<4 | 6.4% |
| 4-<5 | 6.6% |
| 5-<6 | 7.4% |
| 6-<7 | 7.4% |
| 7-<8 | 7.6% |
| 8-<9 | 7.1% |
| 9-<10 | 3.3% |
| 10-<11 | 1.6% |
| 11-<12 | 1.7% |
| 12-<13 | 0.9% |
| 13-<14 | 0.8% |
| 14-<15 | 0.3% |

8.2.13 As mentioned above, the percentage of traffic accidents for bus captains with less than 1 year route driving experience is the highest as compared to those bus captains with years of route driving experience. The figures indicate that less experienced bus captains (<1 year driving experience on the routes) were more likely to be involved in traffic accidents. They need time to get familiar with the characteristics of the routes and the road environment.

Accidents by experience of the bus captains on the bus model operated

Table 8.6 Accidents by Experience of the Bus Captains on the Bus Model Operated

| Experience of the bus captains on the bus model operated (Year) | Distribution of accidents from 2011-2012 (%) |
|---|--|
| 0-<1 | 22.4% |
| 1-<2 | 13.2% |
| 2-<3 | 7.2% |
| 3-<4 | 4.9% |
| 4-<5 | 5.8% |
| 5-<6 | 3.6% |
| 6-<7 | 4.2% |
| 7-<8 | 7.6% |
| 8-<9 | 11.0% |
| 9-<10 | 12.6% |
| 10-<11 | 6.0% |
| 11-<12 | 1.2% |
| 12-<13 | 0.4% |
| 13-<14 | 0.1% |
| 14-<15 | 0.0% |
| 15-<16 | 0.1% |

8.2.14 The figures indicate that less experienced bus captains (<1 year driving experience on the bus model operated) had the highest traffic accident involvement rate.

Accidents by the number of routes which a bus captain operated in one shift

Table 8.7 Accidents by the Number of Routes which a Bus Captain Operated in One Shift in 2012

| Number of routes which a bus captain operated in one shift | Distribution of accidents in 2012 (%) |
|--|---------------------------------------|
| 1 | 89% |
| 2 | 8% |
| 3 | 3% |

Accidents by the number of buses which a bus captain operated in one shift

Table 8.8 Accidents by the Number of Buses a Bus Captain Operated in One Shift in 2012

| Number of buses a bus captain operated in one shift | Distribution of accidents in 2012 (%) |
|---|---------------------------------------|
| 1 | 80% |
| 2 | 18% |
| 3 | 2% |

8.3

Bus Captain Training and Monitoring

8.3.1 As part of KMB's dedication to provide safe, reliable and comfortable services for our passengers, comprehensive systems of bus captain training and monitoring have been set up in KMB. Elements of defensive driving, good driving attitude and emergency handling are incorporated in the various training courses. Driving performance monitoring is carried out with systematic checking by performance assessors, driving instructors and mystery passengers, and followed up with disciplinary actions if required. Moreover, the new 'Drive Green' hardware and software as referenced in a previous Chapter will also help to identify those bus captains who have a higher incidence of 'harsh braking' on a given route than is normal. This information can be used as to ensure that appropriate proactive feedback is given to a bus captain with aim of promoting improved driving behaviour that will in turn serve to prevent/reduce 'loss of balance' cases (as well as accidents in general).

8.3.2 KMB buses have various safety related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed or are being installed on buses.

- Since November 2009, laser gun checks have been strengthened in various areas. The pass rate of laser gun checks remains as high as 99% for the period May 2012 to April 2013. In view of the effectiveness of this arrangement, KMB has strengthened the laser gun checks by increasing the checks to twelve days per month (including both day and night);
- The electronic tachographs have been used to monitor bus captain performance, especially with regard to speeding (see paragraph 8.8.8 for details); and,
- Real-time Driving Indicators 駕駛提示器 (see above reference to the Drive Green initiative) are planned to be installed in buses from mid 2013 which can help bus captains to utilize the driving skills learnt in the Eco-safe Driving Training Course. As denoted above, the benefits of such Eco-safe driving to the bus captains are:
 1. Reduced the risk of accidents while driving;
 2. Reduced stress levels and enhanced satisfaction of driving; and,
 3. Increased confidence in vehicle control and driving technique.

8.3.3 In order to enhance bus captains' ability to deal with emergency incidents such as "dashing out" of pedestrians onto the carriageway, and to improve bus ride comfort, a state-of-the-art driving simulator studio was launched in the KMB Bus Captain Training School at the end of 2007.

8.3.4 To enhance the recruitment of suitable new bus captains, apart from driving record checks, a personality test for bus captain applicants has been introduced since the second half of 2007.

8.3.5 Details of training provided to new and serving bus captains are given in Annex 8.1.

8.3.6 Bus captains who are involved in serious traffic accidents will be suspended from driving duty and referred to receive professional counselling service. Remedial driving training will also be arranged for them.

8.3.7 To prevent similar traffic accidents from recurring, bus captains who are involved in blameworthy traffic accidents resulting in injury are referred to our Bus Captain Training School to attend Safety Enhancement Training. The training course includes defensive driving concepts, simulator training, case studies, experience sharing and assessment.

8.3.8 Communication channels with staff and labour unions are well established and these channels facilitate the exchange of views on issues including safety.

8.3.9 As a safety enhancement measures, the Company has appointed a professional counselling service provider to operate a 24-hour Hotline (傾心線) for our staff and their immediate family members, including spouse and children, to raise and discuss any problems or difficulties they may encounter in their daily lives. The purpose is to provide a channel for staff members to relieve their pressure and seek help from independent professional counsellors as they may see fit. The discussions are strictly confidential and contents will not be revealed to the Company. The Company also organises a series of seminars on health and disease prevention for its staff members with the aim of raising their awareness of the importance of healthy living.

8.4 Rostering, Scheduling and Duty Dispatch

8.4.1 KMB follows rostering, scheduling and duty dispatch systems having due regard to the Transport Department Guidelines on Driver Working Hours. The systems also ensure that only bus captains who satisfy training requirements are assigned to duties.

8.4.2 Arrangements are made to assign new bus captains to easy routes in the first few months of appointment to allow for a period of familiarisation and settling in.

8.4.3 In order to help new bus captains adapt to the new working environment, a “New Bus Captain Assistance Group” was established in June 2009. During the introductory session provided to new bus captains, enquiry hotlines regarding bus operational and mechanical aspects are provided to new bus captains. They are also introduced to experienced staff members who act as their mentors for a new recruit’s first three months on the job. . In addition, regular ‘sharing meetings’ are organised for new bus captains in the presence of management staff. The objective is to give support to new bus captains such that they can become appropriately familiar with daily operations. A hotline is available at the Bus Captain Training School for new bus captains to obtain driving skills consultation from driving instructors.

8.4.4 Ongoing adjustment in journey time, layover time and meal break is made with the solicited input from frontline staff and efforts in this regard have been accelerated of late.

8.4.5 The “Guidelines on Bus Captain Working Hours, Rest Time and Meal Breaks” has been revised and implemented in October 2010. KMB has completed the review on the duty schedules in the 3rd quarter of 2012.

8.5 Bus Maintenance and Safety Features

8.5.1 All KMB buses are subject to a maintenance and quality assurance system which aims to keep the buses in top conditions.

8.5.2 The buses have various safety related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed or are being installed on KMB buses.

8.5.3 At the request of Transport Department, seat belts have been retrofitted at the four seats on the first row on the upper deck of post-1997 design buses. Furthermore, guard rails have been installed across the upper deck windscreen

of the pre-1997 design buses. The improvement works were completed in December 2007 and April 2008 respectively.

8.5.4 Regarding the further request from Transport Department that KMB retrofits double hand rails to all double deck buses with straight staircases (part D(g) as per letter ref. () in BDC 76/50 dated 12 June 2009), some 921 buses with straight staircases have been so fitted (100% of relevant fleet) whilst all new buses with straight staircases will have the double hand rails fitted. The retrofit of double handrails for 555 SLF buses with straight staircases has been completed by end of 2011. As at 30 April 2013, there are 921 SLF buses with straight staircase and all are fitted with double handrails

8.5.5 To help reduce accidents involving elderly passengers due to 'losing balance on board', the new bus specifications have included continuous railing, extending from the entrance into the saloon (as far as is practicable). This new design allows passengers to hold on to a handrail as they move towards the priority seats or the inner part of the bus.

8.5.6 In 2007, as requested by the Legco Panel on Transport Meeting on 26 March 2007 regarding retrofitting of seat belts, KMB/CTB/NWFB had jointly appointed ADL to conduct a feasibility study to examine the possibility of installation/retrofitting of seat belts at the exposed seats on upper deck, all seats on upper deck and exposed seats on lower deck. It was both technically and operationally not feasible to do so in both new and existing buses.

8.6 Promotion of Passenger Safety

8.6.1 Safety awareness among bus captains is promoted by means of in-house videos, safety messages on waybills, internal magazine (i.e. KMB Today), safety tips broadcast on monitors in depots and staff website, as well as the annual *KMB Bus Captain of the Year Competition*. Game booths with tongue twister "Safety-first in KMB" and "Care for the Elderly" puzzles have been promoted in 2011.

8.6.2 Various projects to educate the public and passengers on the safe use of bus services have been undertaken. These include Announcements of Public Interest, education video and TV commercials. In addition, on-board stickers and messages remind passengers of the benefit of taking safety precautions.

8.6.3 Continuous monitoring of accident data and review of procedures and systems to enhance safety are being undertaken with internal cross-departmental meetings and participation in the Road Safety Forum for Franchised Buses organised by Transport Department.

8.6.4 Education of passengers on the importance of road safety and safety on buses will continue in the form of posters and reminders on buses, and using the Bus Stop Announcement System. This will be supplemented by education videos and TV commercial campaigns from time to time. By mid-March 2009, safety messages of “Please hold the handrail” and “Please take care of children and elderly” have been inserted into the Bus Stop Announcement System on all KMB buses for automatic announcement at specific bus stops to remind passengers. A new series of safety messages are being planned to be launched via Bus Stop Announcement System in 2013 to remind passengers to hold the handrails.

8.6.5 KMB produced its first “Bus Captain Safe Driving Handbook” and this was distributed to all bus captains in October 2009. To strive for continuous improvement, the second edition was published in June 2011. The new handbook includes driving regulations and points to note about safe driving, covering every aspect of a bus captains’ daily work. It is aimed at assisting bus captains in establishing a proper safe driving attitude and encouraging them to take all practical steps aimed at achieving safe driving,.

8.6.6 New “Hold the Handrail” safety stickers have been posted to replace the old one in 2012. New higher visibility ‘Priority Seat’ markings have also been rolled out to very good effect.

8.7

Programmes for elderly and persons with disabilities

8.7.1 To further promote a caring culture and prevent accidents, KMB launched a “priority seats” trial scheme in May 2011 involving 87 buses operating on eight routes to encourage passengers to offer their seats to people in need. The programme was so well received that KMB decided to launch the scheme fleet wide on some 3,500 buses. To tie in with the colour of the bus seats, the headrest will be deep purple in colour, featuring the images of the elderly, pregnant women, babies and people with disabilities. A “seat-offering” hand sign is also incorporated with the words “Thought of Giving Your Seat?” to remind passengers of their civic duty. The installation programme was completed by the end of 2012. KMB also produced a new training video to raise the safety awareness of its bus captains internally, with the aim of continually improving on its passenger safety. The message “Thought of giving your seat?” has been inserted into the Bus Stop Announcement System on all KMB buses for automatic announcement at specific bus stops (as a reminder to passengers).

8.7.2 To promote operational safety and share the experience of safe driving, representatives of the Police will be invited to conduct a series of tailor-made Road Safety Lectures.

8.7.3 To further enhance safety awareness among elderly passengers, KMB will launch a series of promotional activities in conjunction with Police. These include visiting bus stops frequently used by elderly to remind them to hold handrail whilst riding on buses.

8.8

Measures to be taken

8.8.1 KMB proposes to use the 3-year average of 2010 to 2012 actual accident involvement rate of 2.95 (defined as the number of buses involved in accidents per million km operated) as a target for the purpose of this Five-Year Plan period. According to the figures in 2011 and 2012, 80% of the cases revealed that our bus captains were not blameworthy (see paragraph 8.2.9 for detail).

8.8.2 The current system of bus captain training will continue to be regularly reviewed.

8.8.3 The performance monitoring system will continue to uphold driving and safety standards.

8.8.4 New Scheduling Software has been sourced from Canada that should facilitate the efforts of the Company in ensuring/ monitoring full compliance with Driver Working Guidelines going forward.

8.8.5 All KMB buses are subject to a stringent maintenance and quality assurance system which keeps the buses in good roadworthy conditions. The existing maintenance and quality assurance system will be continued.

8.8.6 Speed limiting devices have been a standard feature of all KMB buses.

8.8.7 The electronic tachographs satisfy Transport Department's requirements for electronic data recording device issued by VSSD dated 17th October 2003. They are now being used to monitor bus captain performance, especially with regard to speeding. The new 'Drive Green' Initiative will now take this performance monitoring to new levels

8.8.8 The electronic tachograph is standard equipment on new buses. At the end of April 2013, a total of 3,775 KMB buses (99.95% of fleet) were installed with electronic tachographs. One of the remaining 2 buses was an old bus which is scheduled for scrapping in 2013. The other bus is the battery-electric single-deck bus currently under trial.

8.8.9 KMB has created a database of “Driving Tips in Special Attention Areas”. The database provides structured instructions and tips on best driving practices for all bus captains driving on particular routes, so that expertise and knowledge of the most experienced bus captains can be effectively transferred to all others. To promote bus captains’ awareness of safe driving, all relevant bus routes are listed in the database, supplemented by photos and layout drawings of ‘blackspots etc’ for easy reference.

8.8.10 The existing systems of Safety Bonus and Safety Awards will continue to positively promote safety awareness among bus captains. Safety awareness will continue to be emphasised in communications as stated above. In addition to the existing individual safe driving award, route-based awards on bus safety were introduced in 2010 to encourage frontline staff to strive for continual improvement in bus safety performance.

8.8.11 Alcoholic Breathing Test had been introduced randomly to Bus Captains since October 2010 in order to enhance the message of “If you drink, don’t drive”. This practice will continue to enhance bus captains’ safety awareness.

8.8.12 To promote bus operation safety and share the driving safety message, representatives of the Police will continue to be invited to conduct Road Safety workshops. 8 workshops have been organised to date with over 209 participants joining the workshops in 2012.

8.8.13 To enhance the safety awareness and driving skill for new bus captains, the Police in Kowloon East, Kowloon West, NT South and NT North will continue to conduct Road Safety Lectures for new bus captains on a monthly basis

8.8.14 KMB will continue to review and consider the retrofit of safety features as necessary to the vehicles to enhance road and passenger safety.

8.8.15 Internal meetings will continue to be held regularly to monitor accident statistics and propose methods of accident reduction. The importance of systematic ‘feedback loops’ in safety management will be emphasised to ensure that lessons are learned from any incidents that do occur.

8.8.16 KMB will continue to participate in the Road Safety Forum for Franchised Buses organised by Transport Department, and will continue to communicate with Transport Department on road safety issues.

8.8.17 Fostering a safety culture amongst staff members as a whole is key. To enhance communication between bus captains and the management, a Frontline Operations Supporting Team (FOST) has been established. The team encourages two-way communication on various topics, i.e. safety messages, case sharing, feedback/idea collection, etc.

8.8.18 A fit-for-purpose safety management system has been established in December 2011 based on Occupational Health and Safety Assessment Series (“OHSAS”) 18001 requirements. KMB also adopted a “Plan-Do-Check-Act” (PDCA) approach, which aims at achieving continuous improvement in the safety performance of all aspects of the business and sustained operational excellence. Operations Division attained the OHSAS 18001 Certificate in August 2012.

8.8.19 Safety Driving Tips Album will be developed to extract key driving tips for all routes. Appropriate reference albums will be maintained at relevant termini

8.8.20 To enhance interaction between inspectors, terminal supervisors and bus captains and to arouse safety awareness amongst bus captains, “Safe Driving” Cards will be published in pocket size and issued to all bus captains.

8.8.21 160 buses were installed with CCTV in the first quarter of 2013. The footage from these CCTV cameras will provide objective evidence for accident investigation and may encourage positive behavioural change amongst bus captains

8.8.22 On-street monitoring and promotion by inspectors will be conducted in strategic locations on a weekly basis to promote safety messages to passengers.

8.8.23 Safety videos will be broadcast on RoadShow to promote safety messages to passengers.

8.8.24 A “Buddy Driver Programme” was launched in October 2012. Experienced bus captains accompany new bus captains with the aim of providing the new captains with enhanced ‘on the job’ support in their early days with the Company.

Annex 8.1

A. Regular Training for New Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|-----------------------------|--|----------------------------|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for Transport Department class 17 licence tests and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident black spot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus type familiarisation and route training (night drive included).</p> | 18 days full time | Before posting to duty | 3 routes 3-4 bus types |
| 2. | Special Facilities Training | With the assistance of a simulated bus model, bus captains are trained on the operation of Octopus System, Bus Stop Announcement System, Destination Signboard and Fare Display. | Included in Basic Training | Before posting to duty | Not applicable |
| 3. | Simulation training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response action. | Included in Basic Training | Before posting to duty | Not applicable |

B. Regular Training for Serving Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|------------------------------|---|---|---|--|
| 1. | Driving Enhancement Training | Experienced bus captains are trained on areas of defensive driving techniques to avoid traffic accident as well as advanced skills in bus manoeuvres. Service enhancement training is also included. | 1 day full time | For experienced bus captains. | 1 route & highway training 1 bus type |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 to 6 days full time | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | 1 route 1 bus type |
| 3. | Route Training | All bus captains will be trained before being posted to a specific route | 1 day full time | As needed | 1 route 1 bus type |
| 4. | Bus Type Training | All bus captains will be trained before being posted to drive a specific bus type | 1 day full time | As needed | 1 route 1 bus type |
| 5. | Safety Enhancement Training | As a corrective measure to prevent similar traffic accident from recurring, it is anticipated that the driving skill and driving attitude of bus captains concerned can be enhanced after receiving the training | 1.5 hours | For bus captains involved in liable traffic accident resulting in injury | Not applicable |
| 6. | Simulator Training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response actions. | Included in Driving Enhancement Training, Remedial Training and Safety Enhancement Training | Included in Driving Enhancement Training, Remedial Training and Safety Enhancement Training | Not applicable |

- Training protocols are subject to ongoing review, albeit that the aim will be to continue to do all that is reasonably practicable to ensure the safety and comfort of passengers, staff and other road users at all times

5-YEAR PLAN 2015 - 2019

June 2014⁵²⁸⁶

8. BUS SAFETY

8.1 Introduction

8.1.1 Safety is the top priority in the operation of the KMB. Safety is enhanced through the strengthening of communication, documentation, training, deployment and performance monitoring as well as improvements in bus maintenance and design. Considerable efforts have also been made to promote traffic safety by passenger education and publicity.

8.1.2 This chapter includes an analysis of the types/causes of accidents for the past two calendar years (2012 and 2013) and the relationship of accident rates with respect to different factors, including bus captain age, length of service, and length of driving hours before the accident, bus types, etc.

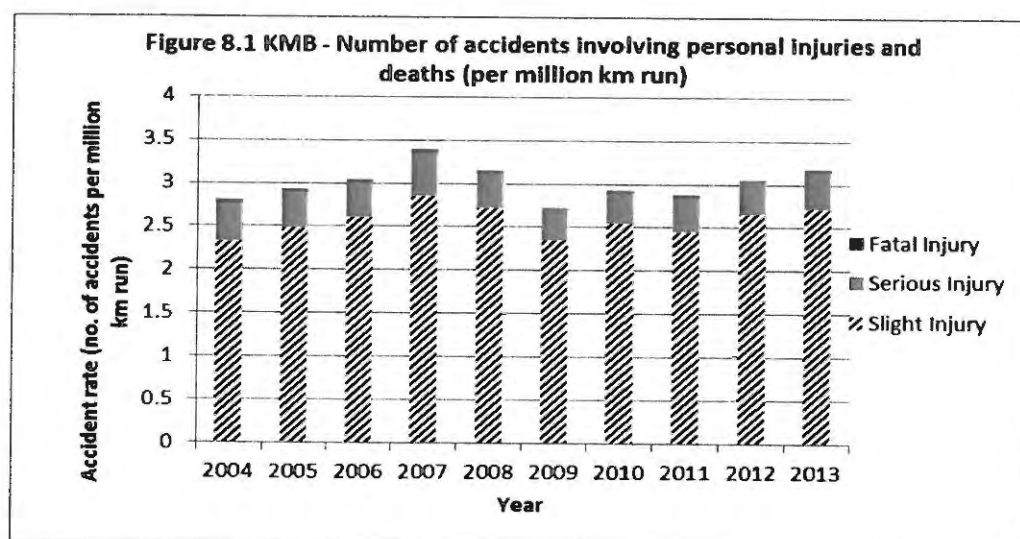
8.1.3 The chapter further discusses the various measures that have been or are being undertaken to promote safety.

8.2 Analyses of Bus Accidents in the Past Two Calendar Years

8.2.1 The analyses for the two-year period 2012 to 2013 are presented below.

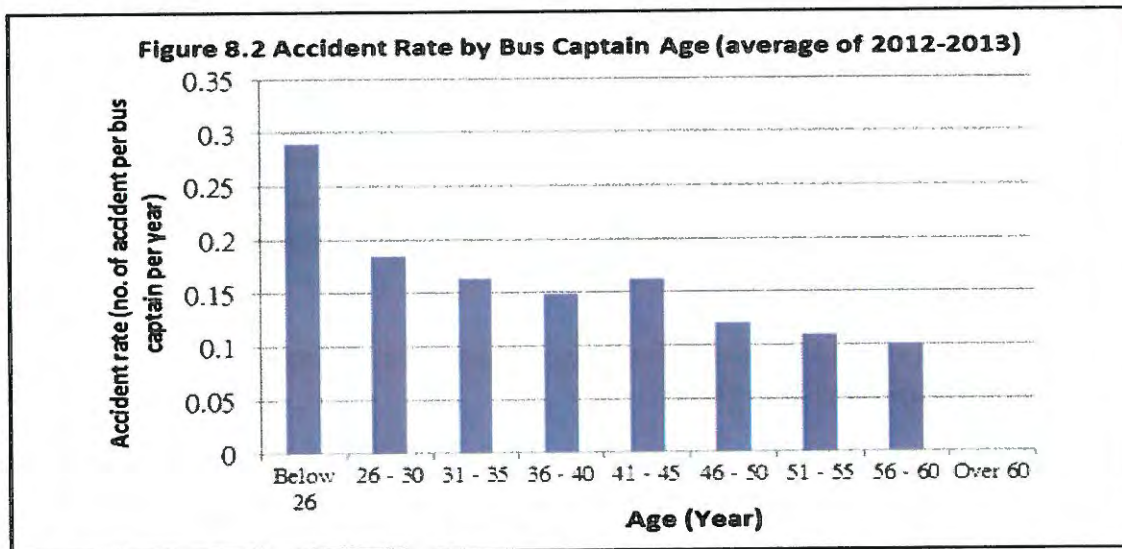
Trend of Accident Rates

8.2.2 Accident rates from 2004 to 2013 are shown in Figure 8.1. Following the increase in accident rate from 2004 to 2007, notable reductions were achieved in 2008 and 2009. The figures from 2008 to 2013 were kept at a better performance than 2007.



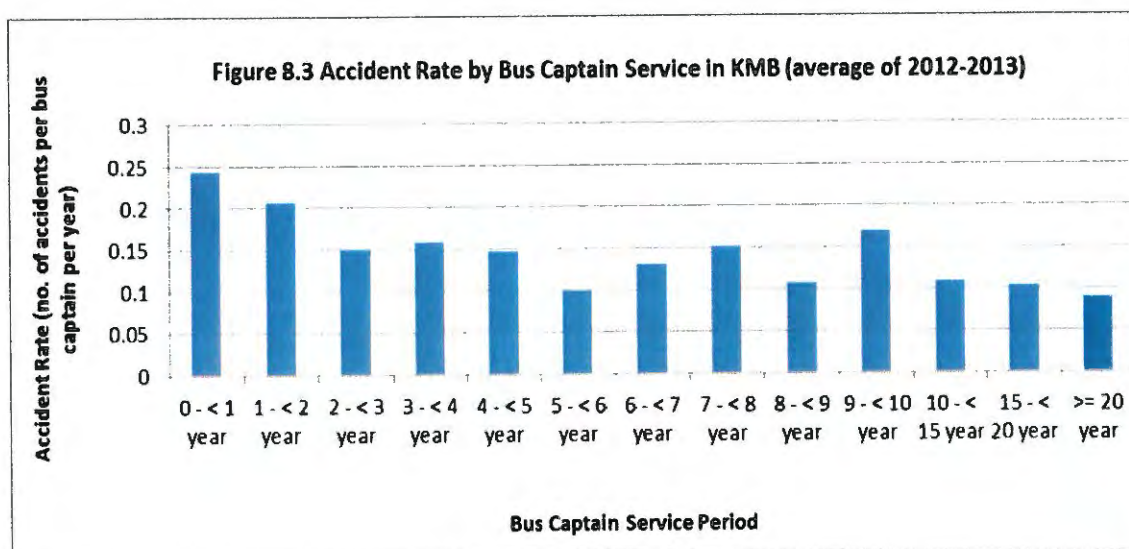
Accident Rate by Bus Captain Age

8.2.3 Results of the analysis of accident rate by bus captain age are shown in Figure 8.2. The results show that younger bus captains are more prone to higher accident rates, but this is mainly due to the fact that these bus captains have relatively less bus driving experience and they are more prone to accidents in their first few months of service. This is also shown in the relationship between accident rates and years of service.



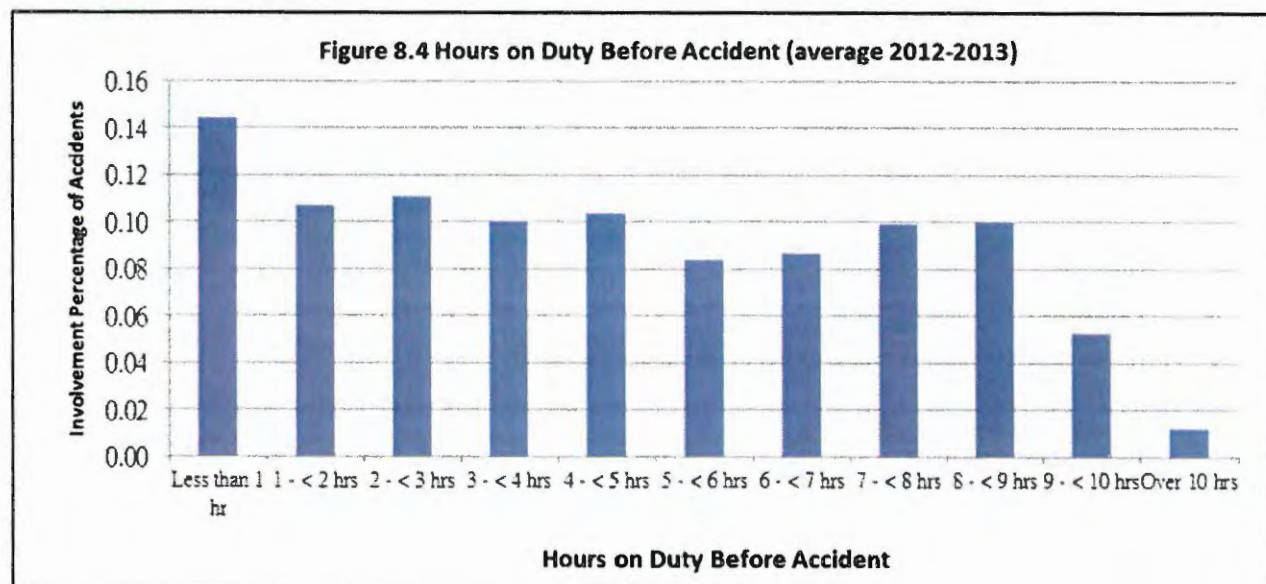
Accident Rate by Years of Service

8.2.4 The results of the analysis on accident rate by experience in terms of years of service in the Company are shown in Figure 8.3. As mentioned above, the likelihood of an accident occurring in the first year immediately following recruitment is relatively higher. The accident rate then falls as experience increases.



Accident Rate by Hours on Duty Before Accident

8.2.5 The analysis results in Figure 8.4 (below) show that there is no correlation between the occurrence of accident and the number of hours on duty before the accident.



Accidents by Nature

8.2.6 The results of an analysis of accident nature are shown in Table 8.1 below. The results are expressed in terms of percentage of accidents during the two years 2012-2013.

Table 8.1 Accidents by nature in percentage

| Accident nature | Percentage (%) |
|---|----------------|
| Head On/Tail Collision | 13.4% |
| Glancing Collision | 4.0% |
| Collision with Third Party Vehicle (changing lane) | 10.6% |
| Collision With Other Vehicle (rolling back/forward/reversing) | 0.5% |
| Junction Collision | 5.1% |
| Entering Roundabout Collision | 0.2% |
| Hit Stationary Object/Vehicle/Animal | 1.8% |
| Bus Overturn/Topple | 0.0% |
| Injury To Pedestrian | 5.9% |
| Injury To Alighting/Boarding Passenger | 3.0% |
| Passenger Loss Of Balance | 53.1% |
| Injury To Passenger Inside Bus | 1.7% |
| Others | 0.7% |
| Total: | 100% |

8.2.7 The majority of the accidents (53.1%) were due to passengers losing balance while on the bus. More than half of these cases were caused by the bus braking in traffic. Accidents with injuries sustained as a result of different kinds of collisions accounted for 34%, while accidents with injury to pedestrians accounting for 5.9% of all the accidents.

8.2.8 The breakdown by our classification of accident nature from 2012 to 2013 is as follows:

Table 8.2 Accidents by nature

| Accident Nature | No. of Accidents | |
|---|------------------|-------------|
| | 2012 | 2013 |
| Head On / Head Tail Collision | 149 | 137 |
| Glancing Collision | 42 | 44 |
| Collision with Vehicle Changing Lane | 119 | 107 |
| Collision With Other Vehicle (rolling back/forward/reversing) | 7 | 3 |
| Collision at junction | 59 | 49 |
| Entering roundabout Collision | 2 | 2 |
| Hitting Stationary Object | 17 | 22 |
| Overturn/Topple | 0 | 0 |
| Injury to Pedestrian | 57 | 69 |
| Injury to Boarding/Alighting Passenger | 32 | 31 |
| Passenger Loss of Balance | 544 | 587 |
| Injury to Passenger Inside Bus - Other Natures | 13 | 22 |
| Others | 8 | 6 |
| Total: | 1049 | 1080 |

8.2.9 Number of accidents by nature has increased in “Injury to Pedestrian” and “Passenger Loss of Balance” categories in 2013. However, the blameworthy percentage under category “Injury to Pedestrian” dropped from 33% in 2012 to 29% in 2013. The blameworthy percentage under category “Passenger Loss of Balance” also dropped from 3% in 2012 to 2% in 2013.

Accidents by Liability

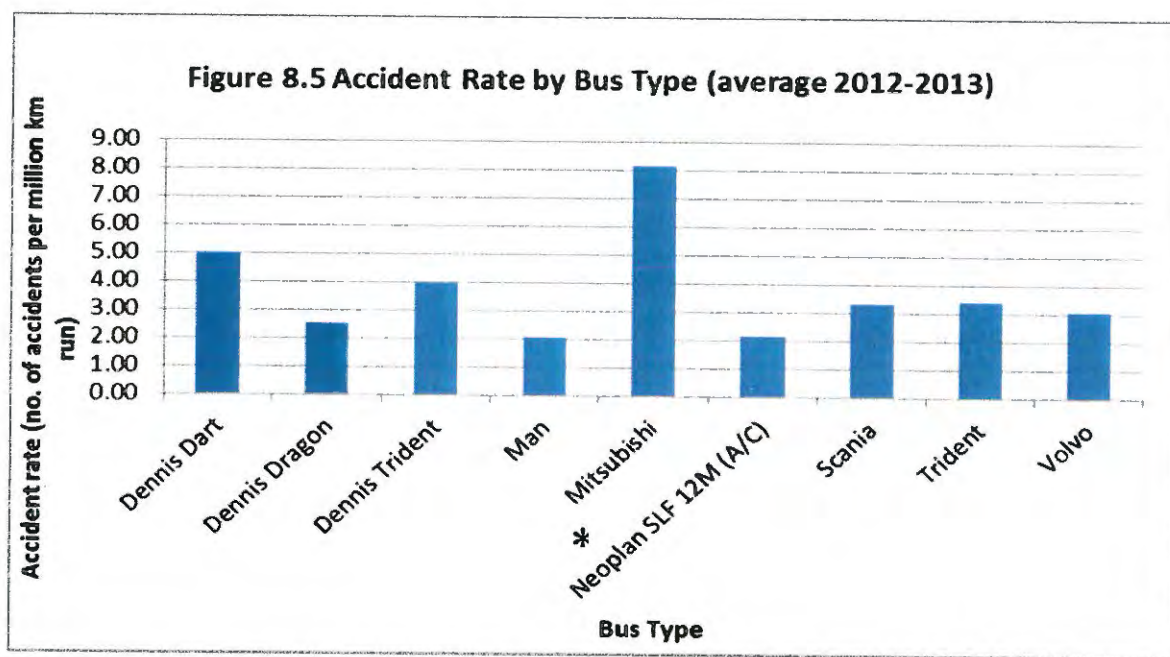
8.2.10 The breakdown of liability in the two-year period is shown in Table 8.3 below. For 80% of the cases, the bus captains were considered innocent. About 1% of the cases are pending for Police action and/or court ruling.

Table 8.3 Accidents by Liability of Bus Captain

| Liability of KMB Bus Captain | Percentage (%) |
|------------------------------|----------------|
| Negligent | 19 |
| Innocent | 80 |
| Pending | 1 |
| Total: | 100 |

Accidents by Bus Type (Current Types Only)

8.2.11 Accidents by bus type were also analysed and the results are shown in Figure 8.5. The general results are not significant enough to show any direct relationships between accident rate and bus type, and the differences among bus types can be attributable to operating environment (e.g. route), roads, bus captains and other factors.



Note : * No Mitsubishi buses have been in use since April 2012

8.2.12 The percentage of duties in KMB that involve bus or route hopping was (33.0% and 20.1% respectively) as at the end of April 2014.

8.2.13 The breakdown of the number of non-collision accident involving passenger casualty is provided as follows:

Table 8.4 Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty

| | Number of Non-collision Franchised Bus Accidents involving passenger casualty | Percentage over all accidents involving franchised buses | No. of accidents involving passenger losing balance on stairway (No. of casualty) (i) | No. of accidents involving passenger injured by door (No. of casualty) (ii) | No. of accidents involving passenger losing balance elsewhere except (i) & (ii) (No. of casualty) (iii) |
|------|---|--|--|--|--|
| 2013 | 640 | 59.3% | 153 | 24 | 463 |

Accidents by experience of the bus captains on the route

Table 8.5 Accidents by Experience of the Bus Captains on the Route

| Experience of the bus captains on the route (Year) | Distribution of accidents from 2012-2013 (%) |
|---|---|
| 0-<1 | 34.6% |
| 1-<2 | 11.6% |
| 2-<3 | 7.5% |
| 3-<4 | 6.4% |
| 4-<5 | 4.9% |
| 5-<6 | 4.3% |
| 6-<7 | 4.7% |
| 7-<8 | 6.4% |
| 8-<9 | 6.5% |
| 9-<10 | 4.8% |
| 10-<11 | 2.8% |
| 11-<12 | 1.8% |
| 12-<13 | 0.5% |
| 13-<14 | 1.3% |
| 14-<15 | 0.9% |
| 15-<16 | 0.4% |
| 24-<25 | 0.7% |

8.2.14 As mentioned above, the percentage of traffic accidents for bus captains with less than 1 year route driving experience is the highest as compared to those bus captains with years of route driving experience. The figures indicate that less experienced bus captains (<1 year driving experience on the routes) were more likely to be involved in traffic accidents. They need time to get familiar with the characteristics of the routes and the road environment.

Accidents by experience of the bus captains on the bus model operated

Table 8.6 Accidents by Experience of the Bus Captains on the Bus Model Operated

| Experience of the bus captains on the bus model operated (Year) | Distribution of accidents from 2012-2013 (%) |
|--|---|
| 0-<1 | 24.5% |
| 1-<2 | 15.9% |
| 2-<3 | 12.4% |
| 3-<4 | 6.5% |
| 4-<5 | 3.4% |
| 5-<6 | 3.3% |
| 6-<7 | 2.4% |
| 7-<8 | 3.6% |
| 8-<9 | 5.5% |
| 9-<10 | 9.1% |
| 10-<11 | 7.6% |
| 11-<12 | 4.1% |
| 12-<13 | 0.9% |
| 13-<14 | 0.2% |
| 14-<15 | 0.0% |
| 24-<25 | 0.5% |

8.2.15 The figures indicate that less experienced bus captains (<1 year driving experience on the bus model operated) had the highest traffic accident involvement rate.

Accidents by the number of routes which a bus captain operated in one shift

Table 8.7 Accidents by the Number of Routes which a Bus Captain Operated in One Shift in 2012-2013

| Number of routes which a bus captain operated in one shift | Distribution of accidents in 2012-2013 (%) |
|--|--|
| 1 | 87% |
| 2 | 10% |
| 3 | 2% |

Accidents by the number of buses which a bus captain operated in one shift

Table 8.8 Accidents by the Number of Buses a Bus Captain Operated in One Shift in 2012-2013

| Number of buses a bus captain operated in one shift | Distribution of accidents in 2012-2013 (%) |
|---|--|
| 1 | 77% |
| 2 | 21% |
| 3 | 2% |

8.3 Bus Captain Training and Monitoring

8.3.1 As part of KMB's dedication to provide safe, reliable and comfortable services for our passengers, comprehensive systems of bus captain training and monitoring have been set up in KMB. Elements of defensive driving, good driving attitude and emergency handling are incorporated in the various training courses. Driving performance monitoring is carried out with systematic checking by driving instructors and followed up with disciplinary actions if required. Moreover, the new 'Drive Green' hardware and software as referenced in a previous Chapter will also help to identify those bus captains who have a higher incidence of 'harsh braking' on a given route than is normal. This information can be used as to ensure that appropriate proactive feedback is given to a bus captain with aim of promoting improved driving behaviour that will in turn serve to prevent/reduce 'loss of balance' cases (as well as accidents in general).

8.3.2 KMB buses have various safety related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed or are being installed on buses.

- Since November 2009, laser gun checks have been strengthened in various areas. The pass rate of laser gun checks remains as high as 99.5% for the period May 2013 to April 2014. In view of the effectiveness of this

arrangement, KMB has strengthened the laser gun checks by increasing the checks to twelve days per month (including both day and night);

- The electronic tachographs have been used to monitor bus captain performance, especially with regard to speeding (see paragraph 8.8.8 for details); and
- Real-time Driving Indicators 駕駛提示器 (see above reference to the Drive Green initiative in 7.5.8 of Chapter 7) are planned to be installed in buses from mid 2013 which can help bus captains to utilize the driving skills learnt in the Eco-safe Driving Training Course. As denoted above, the benefits of such Eco-safe driving to the bus captains are:
 1. Reduced risk of accidents while driving;
 2. Reduced stress levels and enhanced satisfaction of driving; and
 3. Increased confidence in vehicle control and driving technique.

8.3.3 In order to enhance bus captains' ability to deal with emergency incidents such as "dashing out" of pedestrians onto the carriageway, and to improve bus ride comfort, a state-of-the-art driving simulator studio was launched in the KMB Bus Captain Training School at the end of 2007.

8.3.4 To enhance the recruitment of suitable new bus captains, apart from driving record checks, a personality test for bus captain applicants has been introduced since the second half of 2007.

8.3.5 Details of training provided to new and serving bus captains are given in Annex 8.1.

8.3.6 Bus captains who are involved in serious traffic accidents will be suspended from driving duty and referred to receive professional counselling service. Remedial driving training will also be arranged for them.

8.3.7 To prevent similar traffic accidents from recurring, bus captains who are involved in blameworthy traffic accidents resulting in injury are referred to our Bus Captain Training School to attend Safety Enhancement Training. The training course includes defensive driving concepts, simulator training, case studies, experience sharing and assessment.

8.3.8 Communication channels with staff and labour unions are well established and these channels facilitate the exchange of views on issues including safety.

8.3.9 As a safety enhancement measures, the Company has appointed a professional counselling service provider to operate a 24-hour Hotline (傾心線) for our staff and their immediate family members, including spouse and children, to raise

and discuss any problems or difficulties they may encounter in their daily lives. The purpose is to provide a channel for staff members to relieve their pressure and seek help from independent professional counsellors as they may see fit. The discussions are strictly confidential and contents will not be revealed to the Company. The Company also organises a series of seminars on health and disease prevention for its staff members with the aim of raising their awareness of the importance of healthy living.

8.4 Rostering, Scheduling and Duty Dispatch

8.4.1 KMB follows rostering, scheduling and duty dispatch systems having due regard to the Transport Department Guidelines on Driver Working Hours. The systems also ensure that only bus captains who satisfy training requirements are assigned to duties.

8.4.2 Arrangements are made to assign new bus captains to easy routes in the first few months of appointment to allow for a period of familiarisation and settling in.

8.4.3 In order to help new bus captains adapt to the new working environment, a "New Bus Captain Assistance Group" was established in June 2009. During the introductory session provided to new bus captains, enquiry hotlines regarding bus operational and mechanical aspects are provided to new bus captains. They are also introduced to experienced staff members who act as their mentors for a new recruit's first three months on the job. In addition, regular 'sharing meetings' are organised for new bus captains in the presence of management staff. The objective is to give support to new bus captains such that they can become appropriately familiar with daily operations. A hotline is available at the Bus Captain Training School for new bus captains to obtain driving skills consultation from driving instructors.

8.4.4 Ongoing adjustment in journey time, layover time and meal break is made with the solicited input from frontline staff and efforts in this regard have been accelerated of late.

8.5 Bus Maintenance and Safety Features

8.5.1 All KMB buses are subject to a maintenance and quality assurance system which aims to keep the buses in top conditions.

8.5.2 The buses have various safety related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed on KMB buses.

8.5.3 At the request of Transport Department, seat belts have been retrofitted at the four seats on the first row on the upper deck of post-1997 design buses. Furthermore, guard rails have been installed across the upper deck windscreen of the pre-1997 design buses. The improvement works were completed in December 2007 and April 2008 respectively.

8.5.4 Regarding the further request from Transport Department that KMB retrofits double hand rails to all double deck buses with straight staircases (part D(g) as per letter ref. () in BDC 76/50 dated 12 June 2009), some 1,122 buses with straight staircases have been so fitted (100% of relevant fleet) whilst all new buses with straight staircases will have the double hand rails fitted. The retrofit of double handrails for 555 SLF buses with straight staircases was completed at the end of 2011. As at 30 April 2014, there were 1,122 SLF buses with straight staircase and all fitted with double handrails.

8.5.5 To help reduce accidents involving elderly passengers due to 'losing balance on board', the new bus specifications have included continuous railing, extending from the entrance into the saloon (as far as is practicable). This new design allows passengers to hold on to a handrail as they move towards the priority seats or the inner part of the bus.

8.5.6 In 2007, as requested by the Legco Panel on Transport Meeting on 26 March 2007 regarding retrofitting of seat belts, KMB/CTB/NWFB had jointly appointed ADL to conduct a feasibility study to examine the possibility of installation/retrofitting of seat belts at the exposed seats on upper deck, all seats on upper deck and exposed seats on lower deck. It was both technically and operationally not feasible to do so in both new and existing buses.

8.6 Promotion of Passenger Safety

8.6.1 Safety awareness among bus captains is promoted by means of in-house videos, safety messages on waybills, internal magazine (i.e. KMB Today), tool-box talk, safety tips broadcast on monitors in depots and staff website, as well as the annual *KMB Bus Captain of the Year Competition*. Game booths with passengers' Dos and Don'ts inside bus compartment have been promoted in 2013.

8.6.2 Various projects to educate the public and passengers on the safe use of bus services have been undertaken. These include Announcements of Public Interest, education video and TV commercials. In addition, on-board stickers and messages remind passengers of the benefit of taking safety precautions.

8.6.3 Continuous monitoring of accident data and review of procedures and systems to enhance safety are being undertaken with internal cross-departmental

meetings and participation in the Road Safety Forum for Franchised Buses organised by Transport Department.

8.6.4 Education of passengers on the importance of road safety and safety on buses will continue in the form of posters and reminders on buses, and using the Bus Stop Announcement System. This will be supplemented by education videos and TV commercial campaigns from time to time. By July 2013, a new series of safety messages was broadcast on the Bus Stop Announcement System (“BSAS”) of buses. A total of 60 designated routes were selected and these safety messages served as friendly reminders to hold the handrails during bus journey. In order to give these friendly reminders greater impact, KMB invited Mr. Bowie Wu Fung, a renowned local actor whose voice is familiar to Hong Kong people, to provide the voice for the messages in Cantonese. The safety messages were also broadcast in English and Putonghua.

8.6.5 KMB produced its first “Bus Captain Safe Driving Handbook” and this was distributed to all bus captains in October 2009. To strive for continuous improvement, the second edition was published in June 2011. The third edition will be published in the 4th quarter of 2014. The new handbook includes driving regulations and points to note about safe driving, covering every aspect of a bus captains’ daily work. It is aimed at assisting bus captains in establishing a proper safe driving attitude and encouraging them to take all practical steps aimed at achieving safe driving,.

8.6.6 New “Hold the Handrail” safety stickers have been posted to replace the old one in 2012. New higher visibility ‘Priority Seat’ markings have also been rolled out to very good effect.

8.6.7 To further enhance passengers’ safety awareness when they ride on the buses, a new video called “Hold the Handrails – Safety First” has been launched since September 2013. It was broadcast in Cantonese on the Multi-media On-board (MMOB) system in KMB buses. The video showed how unforeseen situations could occur on the roads from time to time and passengers were encouraged to hold the handrails at all times to prevent loss of balance in the event of unexpected traffic incidents.

8.7 Programmes for elderly and persons with disabilities

8.7.1 To further promote a caring culture and prevent accidents, KMB fully launched a “priority seats” scheme by the end of 2012. A “seat-offering” hand sign is also incorporated with the words “Thought of Giving Your Seat?” to remind passengers of their civic duty. The aims of the “priority seats” scheme were to promote a culture of caring for passengers and to encourage passengers to express their concerns for the passengers in need by offering their seats to the elderly, disabled,

pregnant women and passengers with infants, even though such initiatives are not statutory requirements. We have also reminded all of our bus captains to proactively offer assistance to the passengers whenever necessary.

8.7.2 KMB also produced a new training video to raise the safety awareness of its bus captains internally, with the aim of continually improving on its passenger safety. The message “Thought of giving your seat?” has been inserted into the Bus Stop Announcement System on all KMB buses for automatic announcement at specific bus stops (as a reminder to passengers).

8.7.3 To promote operational safety and share the experience of safe driving, representatives of the Police are invited to conduct a series of tailor-made Road Safety Lectures.

8.7.4 To further enhance safety awareness among elderly passengers, KMB will launch a series of promotional activities in conjunction with Police. These include visiting bus stops frequently used by elderly to remind them to hold handrail whilst riding on buses.

8.8 Measures to be taken

8.8.1 KMB proposes to use the 3-year average of 2011 to 2013 actual accident involvement rate of 3.03 (defined as the number of buses involved in accidents per million km operated) as a target for the purpose of this Five-Year Plan period. According to the figures in 2012 and 2013, in 79.2% of the cases our bus captains were not blameworthy (see paragraph 8.2.9 for detail).

8.8.2 The current system of bus captain training will continue to be regularly reviewed.

8.8.3 The performance monitoring system will continue to uphold driving and safety standards.

8.8.4 Scheduling System has been implemented since 2013. It enhances the Company’s ability in ensuring/monitoring compliance with Driver Working Guidelines.

8.8.5 All KMB buses are subject to a stringent maintenance and quality assurance system which keeps the buses in good roadworthy conditions. The existing maintenance and quality assurance system will be continued.

8.8.6 Speed limiting devices have been a standard feature of all KMB buses.

8.8.7 The electronic tachographs meet Transport Department's requirements for electronic data recording device issued by VSSD dated 17th October 2003. They are now being used to monitor bus captain performance, especially with regard to speeding. The new 'Drive Green' Initiative has not only enhanced environmental management but also bus safety and ride comfort.

8.8.8 The electronic tachograph is standard equipment on new buses. At the end of April 2014, a total of 3,842 KMB buses (i.e. 100% of fleet) were installed with electronic tachographs.

8.8.9 KMB has created a database of "Driving Tips in Special Attention Areas". The database provides structured instructions and tips on best driving practices for all bus captains driving on particular routes, so that expertise and knowledge of the most experienced bus captains can be effectively transferred to all others. To promote bus captains' awareness of safe driving, all relevant bus routes are listed in the database, supplemented by photos and layout drawings of 'blackspots etc' for easy reference.

8.8.10 The existing systems of Safety Bonus and Safety Awards will continue to positively promote safety awareness among bus captains. Safety awareness will continue to be emphasised in communications as stated above. In addition to the existing individual safe driving award, route-based awards on bus safety were introduced in 2010 to encourage frontline staff to strive for continual improvement in bus safety performance.

8.8.11 Alcoholic Breathing Test had been introduced randomly to Bus Captains since October 2010 in order to enhance the message of "If you drink, don't drive". This practice will continue to enhance bus captains' safety awareness.

8.8.12 To promote bus operation safety and share the driving safety message, representatives of the Police will continue to be invited to conduct Road Safety workshops. Twelve workshops have been organised to date with over 451 participants joining the workshops in 2013.

8.8.13 To enhance the safety awareness and driving skill for new bus captains, the Police in Kowloon East, Kowloon West, NT South and NT North will continue to conduct Road Safety Lectures for new bus captains on a monthly basis

8.8.14 KMB will continue to review and consider the retrofit of safety features as necessary to the vehicles to enhance road and passenger safety.

8.8.15 Internal meetings will continue to be held regularly to monitor accident statistics and propose methods of accident reduction. The importance of

systematic ‘feedback loops’ in safety management will be emphasised to ensure that lessons are learned from any incidents that do occur.

8.8.16 KMB will continue to participate in the Road Safety Forum for Franchised Buses organised by Transport Department, and will continue to communicate with Transport Department on road safety issues.

8.8.17 A fit-for-purpose safety management system has been established in December 2011 based on Occupational Health and Safety Assessment Series (“OHSAS”) 18001 requirements. KMB also adopted a “Plan-Do-Check-Act” (PDCA) approach, which aims at achieving continuous improvement in the safety performance of all aspects of the business and sustained operational excellence. Operations Division attained the OHSAS 18001 Certificate in August 2012.

8.8.18 Safety Driving Tips Album will be reviewed and refreshed on an on-going basis. Appropriate reference albums will be maintained at relevant termini.

8.8.19 On-street monitoring and promotion by inspectors will be conducted in strategic locations on a weekly basis to promote safety messages to passengers.

8.8.20 Safety videos will be broadcast on RoadShow in the 4th quarter of 2014 to enhance passengers’ safety awareness when they ride on the buses.

8.8.21 A “Buddy Driver Programme” was launched in October 2012. Experienced bus captains accompany new bus captains with the aim of providing the new captains with enhanced ‘on the job’ support in their early days with the Company.

8.8.22 Driving instructors of Bus Captain Training School (BCTS) have conducted briefings to bus captains on monthly safety themes at bus termini since January 2014. In line with the specific safety themes, safety posters have been designed and displayed at all strategic locations to promote safety awareness.

8.8.23 Safety promotion boards to appraise bus captains with outstanding safety performance, i.e. “Zero accidents in 20 years”, “Zero accidents in 15 years”, “internal commendations” and “Customer commendations”, were launched in the 2nd quarter of 2014.

Annex 8.1

A. Regular Training for New Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|-----------------------------|--|----------------------------|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for Transport Department class 17 licence tests and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident black spot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus type familiarisation and route training (night drive included).</p> | 18 days full time | Before posting to duty | 2 routes 3-4 bus types |
| 2. | Special Facilities Training | With the assistance of a simulated bus model, bus captains are trained on the operation of Octopus System, Bus Stop Announcement System, Destination Signboard and Fare Display. | Included in Basic Training | Before posting to duty | Not applicable |
| 3. | Simulation training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response action. | Included in Basic Training | Before posting to duty | Not applicable |

B. Regular Training for Serving Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|------------------------------|---|---|---|--|
| 1. | Driving Enhancement Training | Experienced bus captains are trained on areas of defensive driving techniques to avoid traffic accident as well as advanced skills in bus manoeuvres. Service enhancement training is also included. | 1 day full time | For experienced bus captains. | 1 route & highway training 1 bus type |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 to 6 days full time | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | 1 route 1 bus type |
| 3. | Route Training | All bus captains will be trained before being posted to a specific route | 1 day full time | As needed | 1 route 1 bus type |
| 4. | Bus Type Training | All bus captains will be trained before being posted to drive a specific bus type | 1 day full time | As needed | 1 route 1 bus type |
| 5. | Safety Enhancement Training | As a corrective measure to prevent similar traffic accident from recurring, it is anticipated that the driving skill and driving attitude of bus captains concerned can be enhanced after receiving the training | 1.5 hours | For bus captains involved in liable traffic accident resulting in injury | Not applicable |
| 6. | Simulator Training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response actions. | Included in Driving Enhancement Training, Remedial Training and Safety Enhancement Training | Included in Driving Enhancement Training, Remedial Training and Safety Enhancement Training | Not applicable |

- Training protocols are subject to ongoing review, albeit that the aim will be to continue to do all that is reasonably practicable to ensure the safety and comfort of passengers, staff and other road users at all times



Confidential

5 YEAR PLAN 2016 - 2020



5303

8. BUS SAFETY

8.1 Introduction

8.1.1 Safety is the top priority in the operation of KMB. Safety is enhanced through the strengthening of communication, documentation, training, deployment and performance monitoring as well as improvements in bus maintenance and design. Considerable efforts have also been made to promote traffic safety by passenger education and publicity.

8.1.2 This chapter includes an analysis of the types/causes of accidents for the past two calendar years (2013 and 2014) and the relationship of accident rates with respect to different factors, including bus captain age, length of service, and length of driving hours before the accident, bus types, etc.

8.1.3 The chapter further discusses the various measures that have been or are being undertaken to promote safety.

8.2 Analysis of Bus Accidents in the Past Two Calendar Years

8.2.1 The analyses for the two-year period 2013 to 2014. The results are presented below.

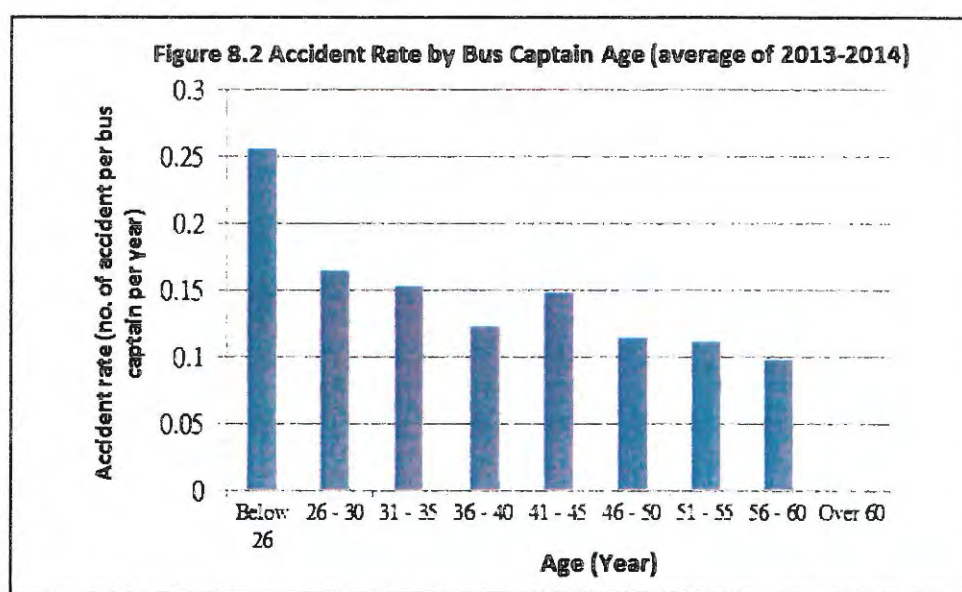
Trend of Accident Rates

8.2.2 Accident rates from 2005 to 2014 are shown in Figure 8.1. Following the increase in accident rate from 2011 to 2013, notable reduction was achieved in 2014.



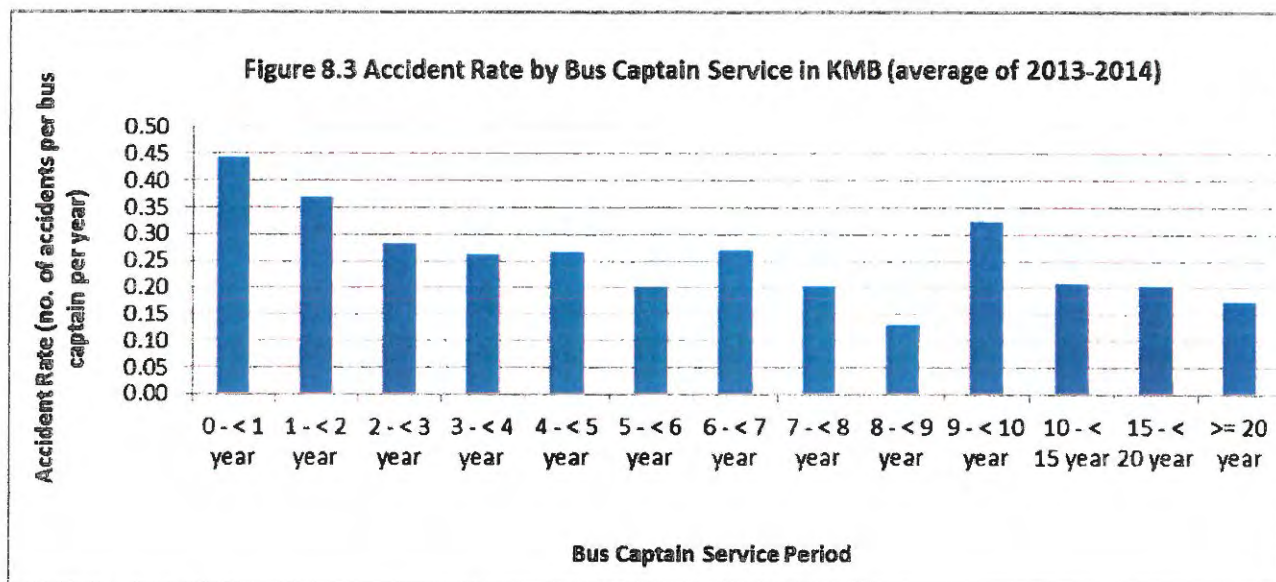
Accident Rate by Bus Captain Age

8.2.3 Results of an analysis of accident rate by bus captain age are shown in Figure 8.2. The results show that younger bus captains are more prone to higher accident rates, but this is mainly due to the fact that these bus captains have relatively less bus driving experience and they are more prone to accidents in their first few months of service. This is also shown in the relationship between accident rates and years of service.



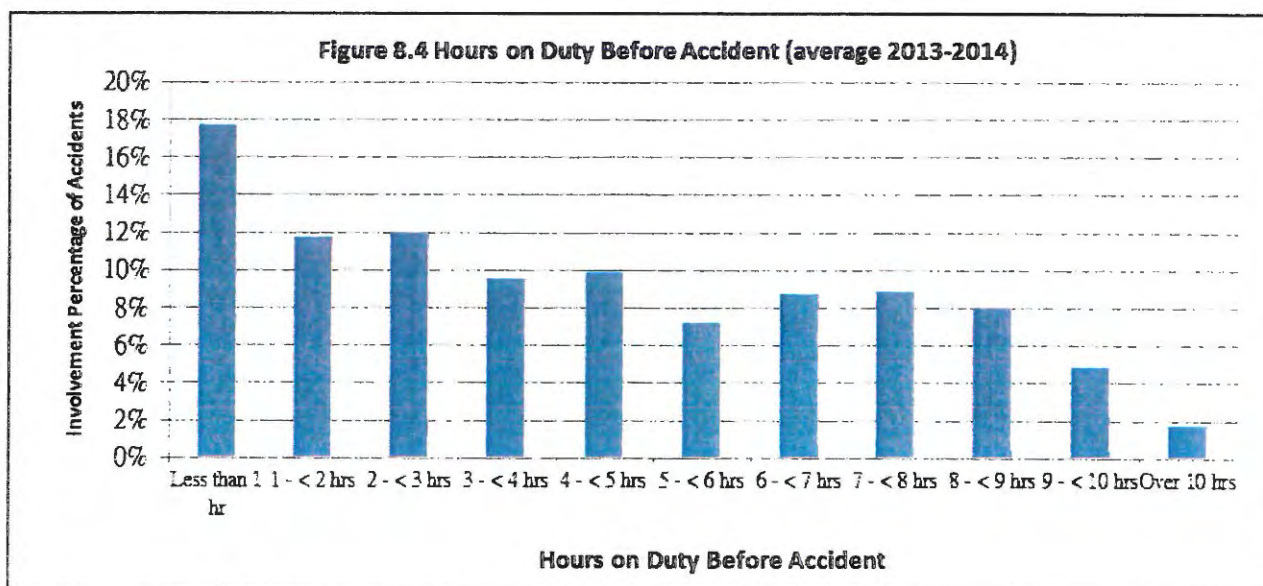
Accident Rate by Years of Service

8.2.4 The results of an analysis on accident rate by experience in terms of years of service in the Company are shown in Figure 8.3. As mentioned above, the likelihood of an accident occurring in the first year immediately following recruitment is relatively higher. The accident rate then falls as experience increases.



Accident Rate by Hours on Duty Before Accident

8.2.5 The analysis results in Figure 8.4 (below) show that there is no correlation between the occurrence of accident and the number of hours on duty before the accident.



Accidents by Nature

8.2.6 The results of an analysis of accident nature are shown in Table 8.1 below. The results are expressed in terms of percentage of accidents during the two years 2013-2014.

Table 8.1 Accidents by nature in percentage

| Accident nature | Percentage (%) |
|---|----------------|
| Head On/Tail Collision | 13.0% |
| Glancing Collision | 4.2% |
| Collision with Third Party Vehicle (changing lane) | 11.1% |
| Collision With Other Vehicle (rolling back/forward/reversing) | 0.4% |
| Junction Collision | 5.2% |
| Entering Roundabout Collision | 0.1% |
| Hit Stationary Object/Vehicle/Animal | 2.1% |
| Bus Overturn/Topple | 0.0% |
| Injury To Pedestrian | 5.1% |
| Injury To Alighting/Boarding Passenger | 2.7% |
| Passenger Loss Of Balance | 53.5% |
| Injury To Passenger Inside Bus | 2.0% |
| Others | 0.4% |
| Total: | 100% |

8.2.7 The majority of the accidents (53.5%) were due to passengers losing balance while on the bus. More than half of these cases were caused by the bus braking in traffic. Accidents with injuries sustained as a result of different kinds of collisions accounted for 34% while accidents with injury to pedestrians accounting for 5.9% of all the accidents.

8.2.8 The breakdown by our classification of accident nature from 2013 to 2014 is as follows:

Table 8.2 Accidents by nature

| Accident Nature | No. of Accidents | |
|---|------------------|------------|
| | 2013 | 2014 |
| Head On / Head Tail Collision | 136 | 127 |
| Glancing Collision | 44 | 42 |
| Collision with Vehicle Changing Lane | 108 | 116 |
| Collision With Other Vehicle (rolling back/forward/reversing) | 3 | 5 |
| Collision at junction | 49 | 56 |
| Entering roundabout Collision | 2 | 1 |
| Hitting Stationary Object | 22 | 21 |
| Overturn/Topple | 0 | 0 |
| Injury to Pedestrian | 69 | 35 |
| Injury to Boarding/Alighting Passenger | 31 | 24 |
| Passenger Loss of Balance | 587 | 497 |
| Injury to Passenger Inside Bus - Other Natures | 22 | 19 |
| Others | 6 | 3 |
| Total: | 1079 | 946 |

8.2.9 Accidents related to "Injury to Pedestrian" and "Passenger Loss of Balance" dropped significantly in 2014.

Accidents by Liability

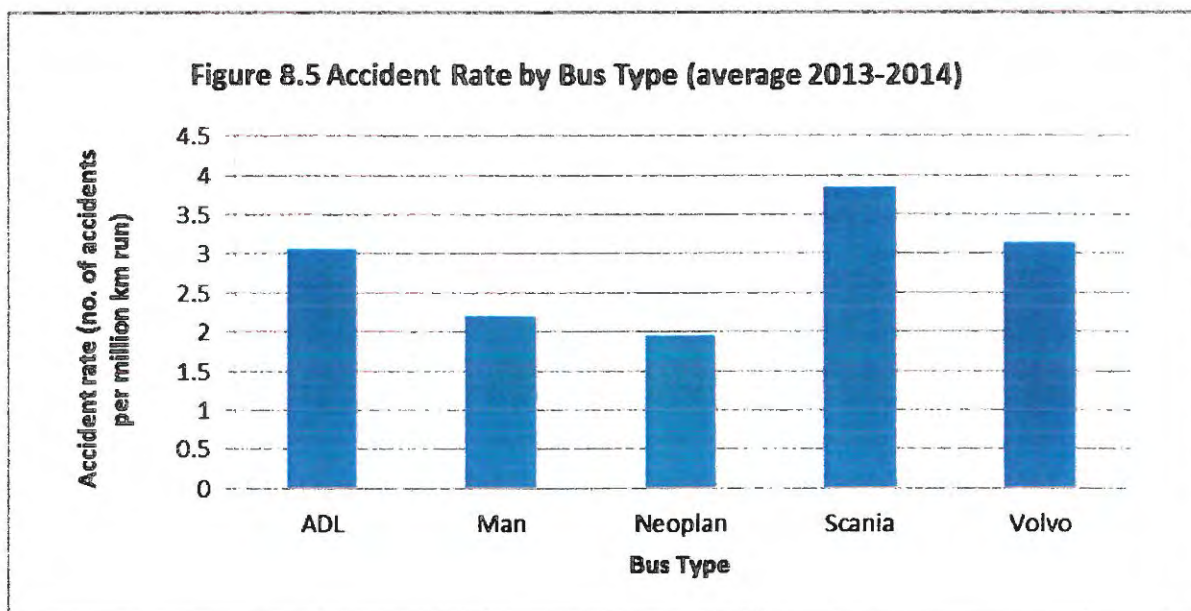
8.2.10 The breakdown of liability in the two-year period is shown in Table 8.3 below. For 80% of the cases, the bus captains were not blameworthy. The pending cases (about 1%) are those pending for Police action and/or court ruling.

Table 8.3 Accidents by Liability of Bus Captain

| Liability of KMB Bus Captain | Percentage (%) |
|------------------------------|----------------|
| Negligent | 19 |
| Innocent | 80 |
| Pending | 1 |
| Total: | 100 |

Accidents by Bus Type

8.2.11 Accidents by bus type were also analysed and the results are shown in Figure 8.5. The general results are not significant enough to show any direct relationships between accident rate and bus type, and the differences among bus types can be attributable to operating environment (e.g. route), roads, bus captains and other factors.



8.2.12 The percentage of duties in KMB that involve bus or route hopping was (51.8% and 23.0% respectively) as at the end of April 2015.

8.2.13 A breakdown of the number of non-collision accident involving passenger casualty is provided as follows:

Table 8.4 Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty

| | Number of Non-collision Franchised Bus Accidents involving passenger casualty | Percentage over all accidents involving franchised buses | No. of accidents involving passenger losing balance on stairway (No. of casualty) (i) | No. of accidents involving passenger injured by door (No. of casualty) (ii) | No. of accidents involving passenger losing balance elsewhere except (i) & (ii) (No. of casualty) (iii) |
|------|---|--|--|--|--|
| 2014 | 540 | 57% | 115 | 21 | 404 |

Accidents by experience of the bus captains on the route

Table 8.5 Accidents by Experience of the Bus Captains on the Route

| Experience of the bus captains on the route (Year) | Distribution of accidents from 2013-2014 (%) |
|---|--|
| 0-<1 | 33.68% |
| 1-<2 | 12.67% |
| 2-<3 | 9.04% |
| 3-<4 | 5.56% |
| 4-<5 | 4.82% |
| 5-<6 | 3.83% |
| 6-<7 | 3.58% |
| 7-<8 | 5.07% |
| 8-<9 | 5.27% |
| 9-<10 | 4.42% |
| 10-<11 | 4.62% |
| 11-<12 | 3.43% |
| 12-<13 | 0.89% |
| 13-<14 | 1.24% |
| 14-<15 | 0.99% |
| 15-<16 | 0.70% |
| 16-<17 | 0.10% |
| 17-<18 | 0.05% |
| 18-<19 | 0.05% |
| Over 19 | 0.00% |

8.2.14 As mentioned above, the percentage of traffic accidents for bus captains with less than 1 year route driving experience is the highest as compared to those bus captains with years of route driving experience. The figures indicate that less experienced bus captains (<1 year driving experience on the routes) were more likely to be involved in traffic accidents. They need time to get familiar with the characteristics of the routes and the road environment.

Accidents by experience of the bus captains on the bus model operated

Table 8.6 Accidents by Experience of the Bus Captains on the Bus Model Operated

| Experience of the bus captains on the bus model operated (Year) | Distribution of accidents from 2013-2014 (%) |
|--|---|
| 0-<1 | 25.16% |
| 1-<2 | 16.69% |
| 2-<3 | 16.59% |
| 3-<4 | 9.76% |
| 4-<5 | 4.56% |
| 5-<6 | 2.82% |
| 6-<7 | 2.13% |
| 7-<8 | 1.83% |
| 8-<9 | 2.67% |
| 9-<10 | 3.37% |
| 10-<11 | 5.10% |
| 11-<12 | 6.14% |
| 12-<13 | 2.33% |
| 13-<14 | 0.64% |
| 14-<15 | 0.20% |
| Over 15 | 0.00% |

8.2.15 The figures indicate that less experienced bus captains (<1 year driving experience on the bus model operated) had the highest traffic accident involvement rate.

Accidents by the number of routes which a bus captain operated in one shift

Table 8.7 Accidents by the Number of Routes which a Bus Captain Operated in One Shift in 2013-2014

| Number of routes which a bus captain operated in one shift | Distribution of accidents in 2013-2014 (%) |
|---|---|
| 1 | 85.38% |
| 2 | 12.15% |
| 3 | 2.47% |

Accidents by the number of buses which a bus captain operated in one shift

Table 8.8 Accidents by the Number of Buses a Bus Captain Operated in One Shift in 2013-2014

| Number of buses a bus captain operated in one shift | Distribution of accidents in 2013-2014 (%) |
|---|--|
| 1 | 63.60% |
| 2 | 29.98% |
| 3 | 6.37% |
| 4 | 0.05% |

8.3 Bus Captain Training and Monitoring

8.3.1 As part of KMB's dedication to provide safe, reliable and comfortable services for our passengers, comprehensive systems of bus captain training and monitoring have been set up in KMB. Elements of defensive driving, good driving attitude and emergency handling are incorporated in various training courses. Driving performance monitoring is carried out with systematic checking by driving instructors and followed up with disciplinary actions if required. Moreover, the new 'Drive Green' hardware and software as referenced in a previous Chapter will also help to identify those bus captains who have a higher incidence of 'harsh braking' on a given route than is normal. This information can be used as to ensure that appropriate proactive feedback is given to a bus captain with aim of promoting improved driving behaviour that will in turn serve to prevent/reduce 'loss of balance' cases (as well as accidents in general).

8.3.2 KMB buses have various safety related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed or are being installed on buses.

- Since November 2009, laser gun checks have been strengthened in various areas. The pass rate of laser gun checks from May 2014 to Apr 2015 is 99.44%, the frequency of check remains at 12 times per month (including day and night).
- The electronic tachographs have been used to monitor bus captain performance, especially with regard to speeding (see paragraph 8.8.8 for details); and,
- Real-time Driving Indicators 駕駛提示器 (see above reference to the Drive Green initiative) are being installed in buses from mid 2013 which can help bus captains to utilize the driving skills learnt in the Eco-safe Driving Training Course. As denoted above, the benefits of such Eco-safe driving to the bus captains are:

1. Reduced the risk of accidents while driving;
2. Reduced stress levels and enhanced satisfaction of driving; and,
3. Increased confidence in vehicle control and driving technique.

8.3.3 To enhance the recruitment of suitable new bus captains, apart from driving record checks, a personality test for bus captain applicants has been introduced since the second half of 2007.

8.3.4 Details of training provided to new and serving bus captains are given in Annex 8.1.

8.3.5 Bus captains who are involved in serious traffic accidents will be suspended from driving duty and referred to receive professional counselling service. Remedial driving training will also be arranged for them.

8.3.6 To prevent similar traffic accidents from recurring, bus captains who are involved in blameworthy traffic accidents resulting in injury are referred to the Bus Captain Training School to attend Safety Enhancement Training. The training course includes defensive driving concepts, case studies, experience sharing and assessment.

8.3.7 Communication channels with staff and labour unions are well established and these channels facilitate the exchange of views on issues including safety.

8.3.8 As a safety enhancement measures, the Company has appointed a professional counselling service provider to operate a 24-hour Hotline (傾心線) for our staff and their immediate family members, including spouse and children, to raise and discuss any problems or difficulties they may encounter in their daily lives. The purpose is to provide a channel for staff members to relieve their pressure and seek help from independent professional counsellors as they may see fit. The discussions are strictly confidential and contents will not be revealed to the Company. The Company also organises a series of seminars on health and disease prevention for its staff members with the aim of raising their awareness of the importance of healthy living.

8.4 Rostering, Scheduling and Duty Dispatch

8.4.1 KMB follows rostering, scheduling and duty dispatch systems having due regard to the Transport Department Guidelines on Driver Working Hours. The systems also ensure that only bus captains who satisfy requirements are assigned to duties.

8.4.2 Arrangements are made to assign new bus captains to easy routes in the first few months of appointment to allow for a period of familiarisation and settling in.

8.4.3 In order to help new bus captains adapt to the new working environment, KMB has enhanced and introduced an all-rounded “Buddy Scheme for New Bus Captain” in May 2015. In this enhanced scheme, new bus captains are provided with New Bus Captain Orientation Handbook regarding bus operational and mechanical aspects during the introductory session. Experienced bus captains (named “Buddy Bus Captains”) accompany new bus captains with the aim of providing the new bus captains with enhanced ‘on the job’ support in their early days with the Company. They are also introduced to experienced staff members who act as their mentors for a new recruit’s first year on the job. Hotline at the Bus Captain Training School and additional hotline of mentors are both available for new bus captains to obtain consultation from driving instructors and mentors respectively.

8.4.4 Ongoing adjustment in journey time, layover time and meal break is made with the solicited input from frontline staff and efforts in this regard have been accelerated in recent years.

8.5 Bus Maintenance and Safety Features

8.5.1 All KMB buses are subject to a maintenance and quality assurance system which aims to keep the buses in top conditions. Speed monitoring and limiting devices are already installed on KMB buses.

8.5.2 The buses have many safety related features to enhance road and passenger safety, such as,

- seat belts have been retrofitted at the four seats on the first row on the upper deck ,
- double hand rails have been retrofitted to all double deck buses with straight staircases (as at 30 April 2015, there are 1543 SLF buses with straight staircase and all are fitted with double handrails); and
- To help reduce accidents involving elderly passengers due to ‘losing balance on board’, the new bus specifications have included continuous railing, extending from the entrance into the saloon (as far as is practicable).

8.6 Promotion of Passenger Safety

8.6.1 Safety awareness among bus captains is promoted by means of in-house videos, safety messages on waybills, internal posters, tool-box talk, and safety tips provided at staff website, as well as through events such as KMB Bus Captain of the Year Competition.

8.6.2 Various projects to educate the public and passengers on the safe use of bus services have been undertaken. These include an education video. In addition, on-board stickers and messages remind passengers to take safety precautions.

8.6.3 Continuous monitoring of accident data and review of procedures and systems to enhance safety are being undertaken with internal cross-departmental meetings.

8.6.4 Education of passengers on the importance of road safety and safety on buses will continue in the form of posters and reminders on buses, and using the Bus Stop Announcement System ("BSAS"). This will be supplemented by education videos from time to time. By July 2013, a new series of safety messages was broadcast on the BSAS of buses. A total of 60 designated routes were selected and these safety messages served as friendly reminders to hold the handrails during bus journey. In order to give these friendly reminders greater impact, KMB invited Mr. Bowie Wu Fung, a renowned local actor whose voice is familiar to Hong Kong people, to provide the voice for the messages in Cantonese. The safety messages were also broadcast in English and Putonghua.

8.6.5 KMB produces its "Bus Captain Safe Driving Handbook" which is distributed to all bus captains. Currently in its third edition, the handbook includes driving regulations and points to note about safe driving, covering every aspect of a bus captain's daily work. It is aimed at assisting bus captains in establishing a proper safe driving attitude and encouraging them to take all practical steps aimed at achieving safe driving.

8.6.6 To further enhance passengers' safety awareness when they ride on the buses, a new video called "Hold the Handrails – Safety First" was launched in September 2013. It was broadcast in Cantonese on the Multi-media On-board (MMOB) system in KMB buses. The video showed how unforeseen situations could occur on the roads from time to time and passengers were encouraged to hold the handrails at all times to prevent loss of balance in the event of unexpected traffic incidents. In addition, a new and updated musical safety video called "Hold the Handrails – Safety First" was launched in November 2014.

8.7 Programmes for Elderly and Persons with Disabilities

8.7.1 To encourage young people to give their seat to passengers in need, KMB's depots regularly receive visits from local youth centres, primary and secondary schools and other educational institutes. In addition to being introduced to the depots' operations, the visitors are informed of the caring facilities in bus compartments, including the priority seats.

8.7.2 Also, KMB's volunteer club, FRIENDS OF KMB, is committed to promoting the message of "Good Passenger - Good Citizen". FRIENDS OF KMB provides voluntary assistance at carnivals organized by District Councils, NGOs and Road Safety Council to enhance public awareness of road safety, offer seats to people in need and to promote safe travel tips for the elderly.

8.7.3 KMB makes use of its bus stop announcement system to broadcast relevant messages in Cantonese, English and Putonghua encouraging passengers to give their seats to those in need.

8.7.4 As part of its efforts to promote a caring culture, KMB launched a new music video in November 2014 for broadcast on all KMB buses fitted with MMOB, once again, which encourages passengers to give their seat to those in need. The video was launched at Tsim Sha Tsui Pier on the occasion of celebrity Louis Yuen staging a street drama with KMB's mascot.

8.7.5 KMB makes use of different ways of promoting its priority seats, including press sessions, press releases and social media to raise awareness about the need to care for the elderly.

8.7.6 To promote operational safety and share the experience of safe driving, representatives of the Police are invited to conduct a series of tailor-made Road Safety Lectures.

8.7.7 To further enhance safety awareness among elderly passengers, KMB have launched a series of promotional activities in conjunction with Police and local district members. These include visiting bus stops frequently used by the elderly to remind them to hold handrail whilst riding on buses.

8.8 Measures to be Taken

8.8.1 KMB proposes to use the 3-year average of 2012 to 2014 actual accident involvement rate of 3.04 (defined as the number of buses involved in accidents per million km operated) as a target for the purpose of this Five-Year Plan period. It represents a 4% reduction from the accident rate in 2013, the highest record among 2012-2014.

8.8.2 The current system of bus captain training will continue to be reviewed regularly.

8.8.3 The performance monitoring system will continue to uphold driving and safety standards.

8.8.4 New Scheduling software was implemented in Year 2013. It enhances the Company's ability in ensuring/ monitoring compliance with Driver Working Guidelines.

8.8.5 All KMB buses are subject to a stringent maintenance and quality assurance system which keeps the buses in good roadworthy conditions. The existing maintenance and quality assurance system will be continued.

8.8.6 Speed limiting devices have been a standard feature of all KMB buses.

8.8.7 The electronic tachographs are being used to monitor bus captain performance, especially with regard to speeding. The new 'Drive Green' Initiative has not only enhanced environmental management but also bus safety and ride comfort. An electronic tachograph is standard equipment on new buses. At the end of April 2015, a total of 3,820 KMB buses (i.e. 100% of fleet) were installed with electronic tachographs.

8.8.8 KMB has created a database of "Driving Tips in Special Attention Areas". The database provides structured instructions and tips on best driving practices for all bus captains driving on particular routes, so that expertise and knowledge of the most experienced bus captains can be effectively transferred to all others. To promote bus captains' awareness of safe driving, all relevant bus routes are listed in the database, supplemented by photos and layout drawings for easy reference.

8.8.9 The existing systems of Safety Bonus and Safety Awards will continue to promote safety awareness among bus captains. Safety awareness will continue to be emphasised in communications as stated above. In addition to the existing individual safe driving award, route-based awards on bus safety will be continued to encourage frontline staff to strive for continual improvement in bus safety performance.

8.8.10 Alcoholic Breathing Test of Bus Captains is randomly conducted to control the incidence of driving under influence.

8.8.11 To promote bus operation safety and share the driving safety message, representatives of the Police will continue to be invited to conduct Road Safety Lectures. 12 workshops have been organised to date with 467 participants joining the workshops in 2014.

8.8.12 KMB will continue to review and consider the retrofit of safety features as necessary to the vehicles to enhance road and passenger safety.

8.8.13 Internal meetings will continue to be held regularly to monitor accident statistics and propose methods of accident reduction. The importance of systematic 'feedback loops' in safety management will be emphasised to ensure that lessons are learned from any incidents that do occur.

8.8.14 KMB will continue to communicate with Transport Department on road safety issues.

8.8.15 On-street monitoring and promotion by inspectors will be conducted in strategic locations on a regular basis to promote safety messages to passengers.

8.8.16 Driving instructors of Bus Captain Training School have conducted briefings to bus captains on monthly safety themes at bus termini since January 2014. In line with the specific safety themes, safety posters have been designed and displayed at all strategic locations to promote safety awareness.

Annex 8.1

A. Regular Training for New Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|-----------------------------|--|----------------------------|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for Transport Department class 17 licence tests and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident black spot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus type familiarisation and route training (night drive included).</p> | 18 days full time | Before posting to duty | 2 routes 3-4 bus types |
| 2. | Special Facilities Training | With the assistance of a simulated bus model, bus captains are trained on the operation of Octopus System, Bus Stop Announcement System, Destination Signboard and Fare Display. | Included in Basic Training | Before posting to duty | Not applicable |

B. Regular Training for Serving Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|------------------------------|---|-----------------------|---|--|
| 1. | Driving Enhancement Training | Experienced bus captains are trained on areas of defensive driving techniques to avoid traffic accident as well as advanced skills in bus manoeuvres. Service enhancement training is also included. | 1 day full time | For experienced bus captains. | 1 route & highway training 1 bus type |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 to 6 days full time | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | 1 route 1 bus type |
| 3. | Route Training | All bus captains will be trained before being posted to a specific route | 1 day full time | As needed | 1 route 1 bus type |
| 4. | Bus Type Training | All bus captains will be trained before being posted to drive a specific bus type | 1 day full time | As needed | 1 route 1 bus type |
| 5. | Safety Enhancement Training | As a corrective measure to prevent similar traffic accident from recurring, it is anticipated that the driving skill and driving attitude of bus captains concerned can be enhanced after receiving the training | 1.5 hours | For bus captains involved in liable traffic accident resulting in injury | Not applicable |

- Training protocols are subject to ongoing review, albeit that the aim will be to continue to do all that is reasonably practicable to ensure the safety and comfort of passengers, staff and other road users at all times



5 YEAR PLAN 2017-2021



5320

8. BUS SAFETY

8.1 Introduction

8.1.1 Safety is the top priority in the operation of KMB. Safety is enhanced through the strengthening of communication, documentation, training, deployment and performance monitoring as well as improvements in bus maintenance and design. Considerable efforts have also been made to promote traffic safety by passenger education and publicity.

8.1.2 This chapter includes an analysis of the types/causes of accidents for the past two calendar years (2014 and 2015) and the relationship of accident rates with respect to different factors, including bus captain age, length of service, and length of driving hours before the accident, bus types, etc.

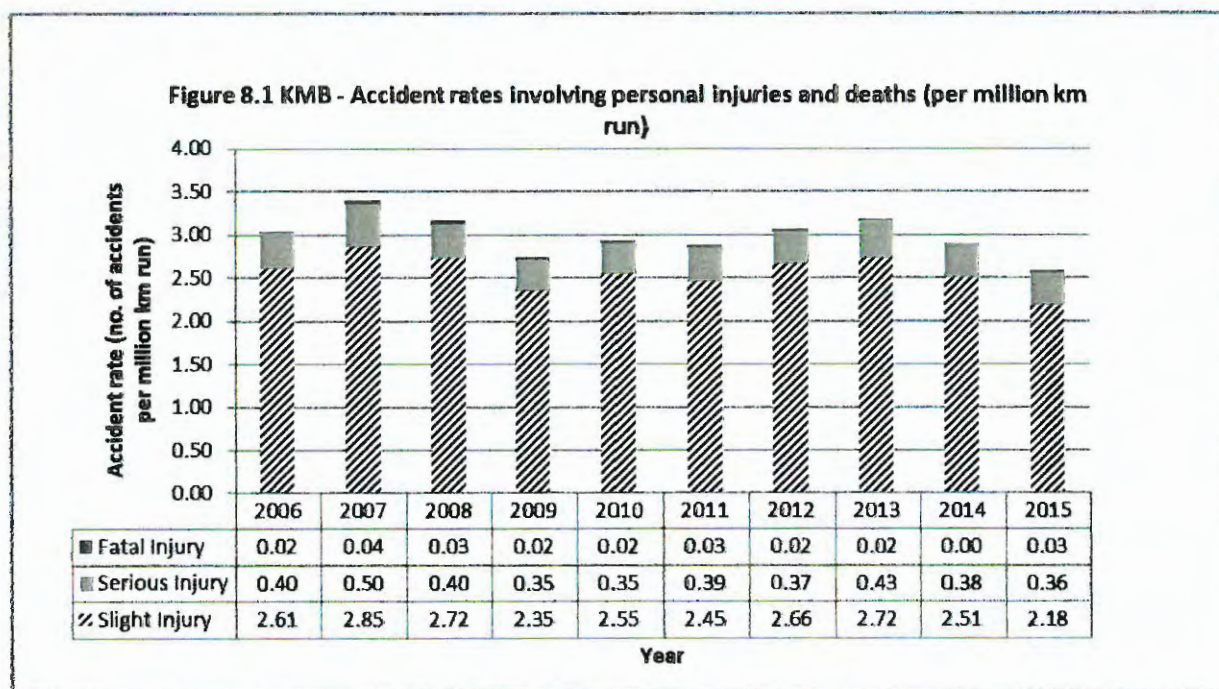
8.1.3 The chapter further discusses the various measures that have been or are being undertaken to promote safety.

8.2 Analysis of Bus Accidents in the Past Two Calendar Years

8.2.1 The analyses for the two-year period 2014 to 2015. The results are presented below.

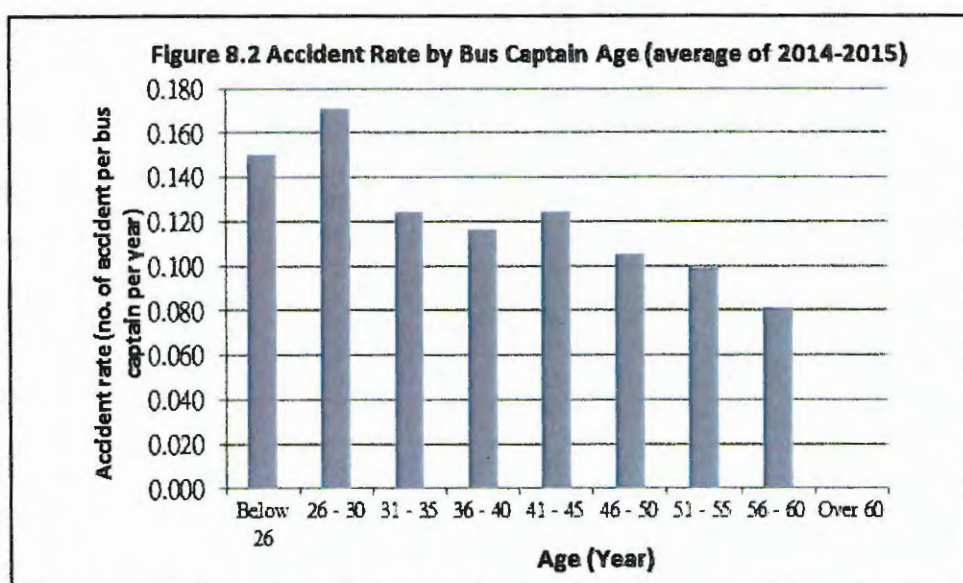
Trend of Accident Rates

8.2.2 Accident rates from 2006 to 2015 are shown in Figure 8.1. Following the increase in accident rate from 2011 to 2013, notable reduction was achieved in 2014 and 2015.



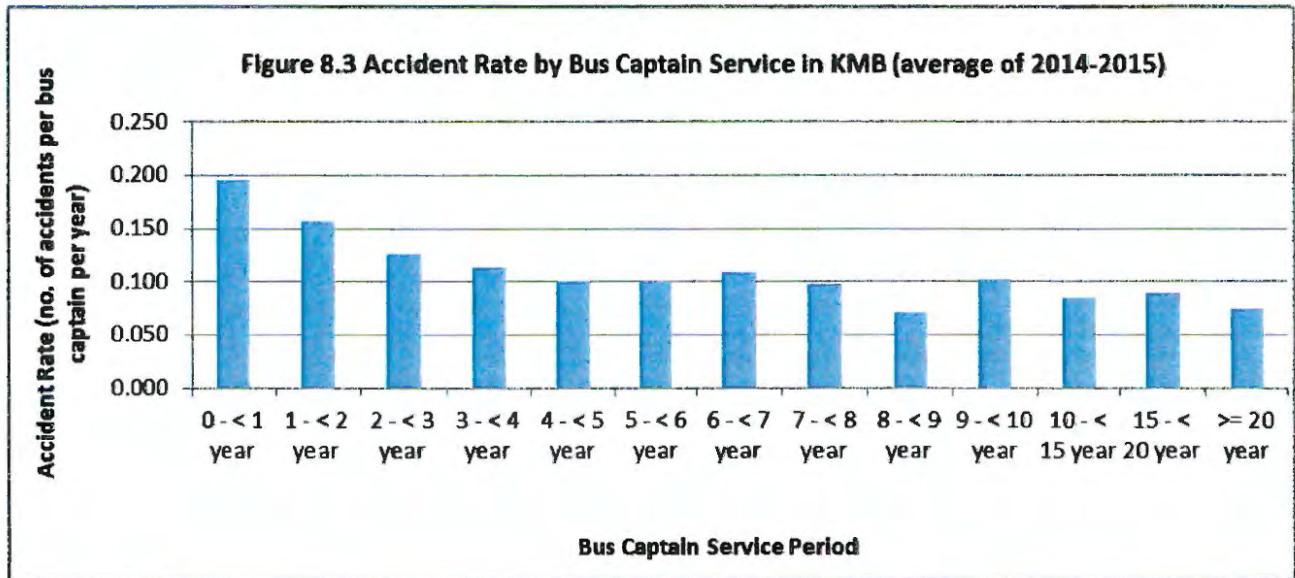
Accident Rate by Bus Captain Age

8.2.3 Results of an analysis of accident rate by bus captain age are shown in Figure 8.2. The results show that younger bus captains are more prone to higher accident rates, but this is mainly due to the fact that these bus captains have relatively less bus driving experience and they are more prone to accidents in their first few months of service. This is also shown in the relationship between accident rates and years of service.



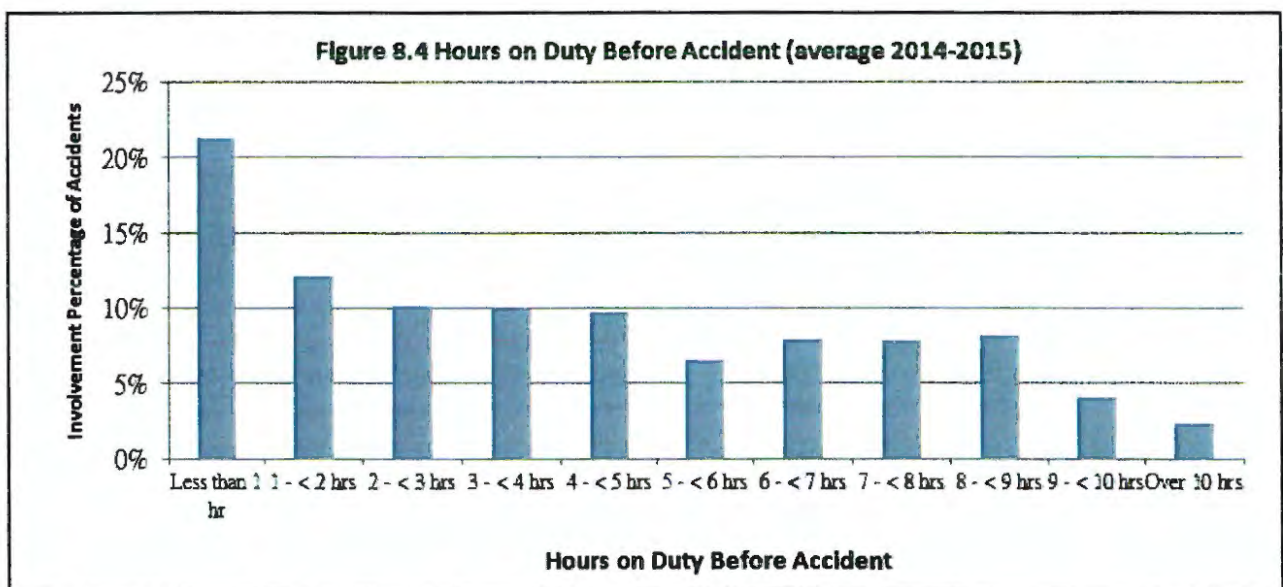
Accident Rate by Years of Service

8.2.4 The results of an analysis on accident rate by experience in terms of years of service in the Company are shown in Figure 8.3. As mentioned above, the likelihood of an accident occurring in the first year immediately following recruitment is relatively higher. The accident rate then falls as experience increases.



Accident Rate by Hours on Duty Before Accident

8.2.5 The analysis results in Figure 8.4 show that there is no correlation between the occurrence of accident and the number of hours on duty before the accident.



Accidents by Nature

8.2.6 The results of an analysis of accident nature are shown in Table 8.1 below. The results are expressed in terms of percentage of accidents during the two years 2014-2015.

Table 8.1 Accidents by nature in percentage

| Accident nature | Percentage (%) |
|---|----------------|
| Head On/Tail Collision | 14.1% |
| Glancing Collision | 4.0% |
| Collision with Third Party Vehicle (changing lane) | 11.3% |
| Collision With Other Vehicle (rolling back/forward/reversing) | 0.6% |
| Junction Collision | 6.2% |
| Entering Roundabout Collision | 0.2% |
| Hit Stationary Object/Vehicle/Animal | 1.8% |
| Bus Overturn/Topple | 0.0% |
| Injury To Pedestrian | 4.3% |
| Injury To Alighting/Boarding Passenger | 2.6% |
| Passenger Loss Of Balance | 52.4% |
| Injury To Passenger Inside Bus | 2.0% |
| Others | 0.4% |
| Total: | 100% |

8.2.7 The majority of the accidents (52.4%) were due to passengers losing balance while on the bus. More than half of these cases were caused by the bus braking in traffic. Accidents with injuries sustained as a result of different kinds of collisions accounted for 36.5% while accidents with injury to pedestrians accounting for 4.3% of all the accidents.

8.2.8 The breakdown by our classification of accident nature is as follows:

Table 8.2 Accidents by nature

| Accident Nature | No. of Accidents | |
|---|------------------|------------|
| | 2014 | 2015 |
| Head On / Head Tail Collision | 126 | 128 |
| Glancing Collision | 42 | 30 |
| Collision with Vehicle Changing Lane | 117 | 87 |
| Collision With Other Vehicle (rolling back/forward/reversing) | 5 | 6 |
| Collision at junction | 56 | 56 |
| Entering roundabout Collision | 1 | 3 |
| Hitting Stationary Object | 21 | 12 |
| Overturn/Topple | 0 | 0 |
| Injury to Pedestrian | 35 | 43 |
| Injury to Boarding/Alighting Passenger | 24 | 22 |
| Passenger Loss of Balance | 497 | 445 |
| Injury to Passenger Inside Bus - Other Natures | 19 | 17 |
| Others | 3 | 4 |
| Total: | 946 | 853 |

8.2.9 Accidents related to “Collision with Vehicle Changing Lane” and “Passenger Loss of Balance” dropped significantly in 2015.

Accidents by Liability

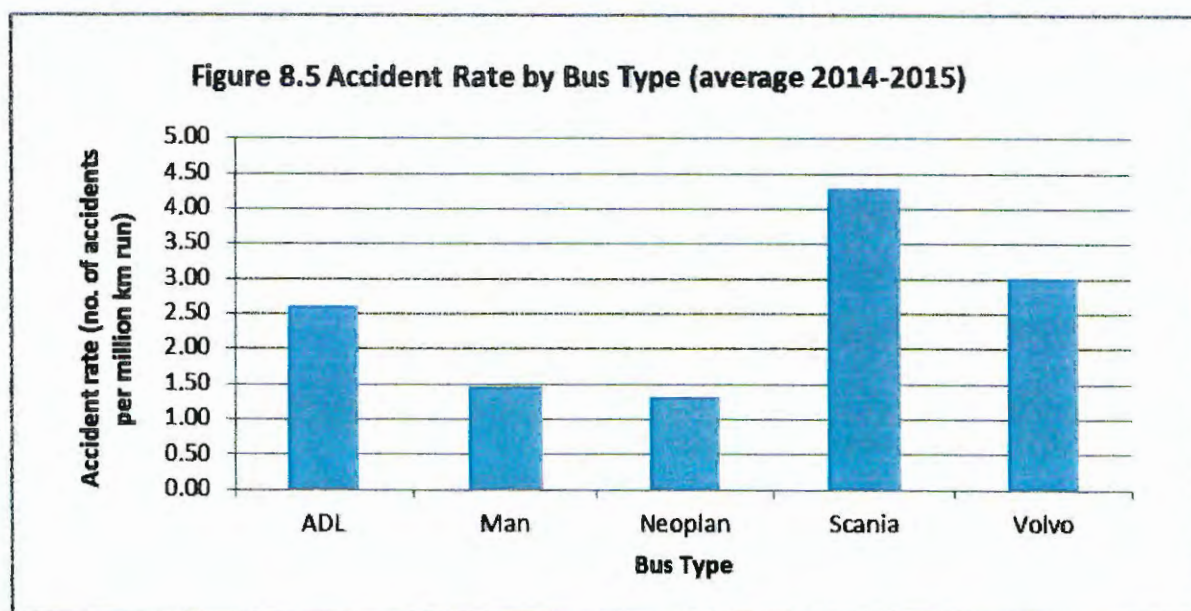
8.2.10 The breakdown of liability in the two-year period is shown in Table 8.3 below. For 79% of the cases, the bus captains were not blameworthy. The pending cases (about 1%) are those pending for Police action and/or court ruling.

Table 8.3 Accidents by Liability of Bus Captain

| Liability of KMB Bus Captain | Percentage (%) |
|-------------------------------------|-----------------------|
| Negligent | 20 |
| Innocent | 79 |
| Pending | 1 |
| Total: | 100 |

Accidents by Bus Type

8.2.11 Accidents by bus type were also analysed and the results are shown in Figure 8.5. The general results are not significant enough to show any direct relationships between accident rate and bus type, and the differences among bus types can be attributable to operating environment (e.g. route), roads, bus captains and other factors.



Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty

Table 8.4 Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty

| | Number of Non-collision Franchised Bus Accidents involving passenger casualty | Percentage over all accidents involving franchised buses | No. of accidents involving passenger losing balance on stairway (No. of casualty) (i) | No. of accidents involving passenger injured by door (No. of casualty) (ii) | No. of accidents involving passenger losing balance elsewhere except (i) & (ii) (No. of casualty) (iii) |
|------|---|--|--|--|--|
| 2015 | 484 | 57% | 106 | 18 | 360 |

Contributory Factors of Traffic Accidents

8.2.12 To prevent similar traffic accidents from recurring, bus captains who are involved in repeated blameworthy traffic accidents are referred to the Bus Captain Training School to attend training. The training course includes defensive driving concepts, case studies, experience sharing and assessment.

8.2.13 KMB produces its "Bus Captain Safe Driving Handbook" which is posted at staff website for all bus captains currently in its fifth edition (1 March 2016), the handbook includes driving regulations and points to note about safe driving, covering every aspect of a bus captain's daily work. It is aimed at assisting bus captains in establishing a proper safe driving attitude and encouraging them to take all practical steps aimed at achieving safe driving.

Accidents by experience of the bus captains on the route

Table 8.5 Accidents by Experience of the Bus Captains on the Route

| Experience of the bus captains on the route (Year) | Distribution of accidents from 2014-2015 (%) |
|--|--|
| 0-<1 | 33.7% |
| 1-<2 | 12.8% |
| 2-<3 | 10.1% |
| 3-<4 | 5.9% |
| 4-<5 | 5.2% |
| 5-<6 | 3.8% |
| 6-<7 | 3.1% |
| 7-<8 | 3.1% |
| 8-<9 | 4.2% |

| Experience of the bus captains on the route (Year) | Distribution of accidents from 2014-2015 (%) |
|---|---|
| 9-<10 | 3.4% |
| 10-<11 | 4.4% |
| 11-<12 | 4.8% |
| 12-<13 | 2.1% |
| 13-<14 | 1.2% |
| 14-<15 | 0.7% |
| 15-<16 | 0.5% |
| 16-<17 | 0.5% |
| 17-<18 | 0.3% |
| 18-<19 | 0.2% |

8.2.14 As mentioned above, the percentage of traffic accidents for bus captains with less than 1 year route driving experience is the highest as compared to those bus captains with years of route driving experience. The figures indicate that less experienced bus captains (<1 year driving experience on the routes) were more likely to be involved in traffic accidents. They need time to get familiar with the characteristics of the routes and the road environment.

Accidents by experience of the bus captains on the bus model operated

Table 8.6 Accidents by Experience of the Bus Captains on the Bus Model Operated

| Experience of the bus captains on the bus model operated (Year) | Distribution of accidents from 2014-2015 (%) |
|--|---|
| 0-<1 | 26.9% |
| 1-<2 | 14.6% |
| 2-<3 | 13.0% |
| 3-<4 | 11.5% |
| 4-<5 | 8.7% |
| 5-<6 | 3.9% |
| 6-<7 | 2.3% |
| 7-<8 | 2.1% |
| 8-<9 | 1.6% |
| 9-<10 | 1.4% |
| 10-<11 | 3.1% |
| 11-<12 | 5.4% |
| 12-<13 | 3.3% |
| 13-<14 | 1.6% |
| 14-<15 | 0.4% |
| 15-<16 | 0.1% |

8.2.15 The figures indicate that less experienced bus captains (<1 year driving experience on the bus model operated) had the highest traffic accident involvement rate.

Accidents by the number of routes which a bus captain operated in one shift

Table 8.7 Accidents by the Number of Routes which a Bus Captain Operated in One Shift

| Number of routes which a bus captain operated in one shift | Distribution of accidents in 2014-2015 (%) |
|--|--|
| 1 | 84% |
| 2 | 13% |
| 3 | 3% |

Accidents by the number of buses which a bus captain operated in one shift

Table 8.8 Accidents by the Number of Buses a Bus Captain Operated in One Shift

| Number of buses a bus captain operated in one shift | Distribution of accidents in 2014-2015 (%) |
|---|--|
| 1 | 47.8% |
| 2 | 40.4% |
| 3 | 11.6% |
| 4 | 0.2% |
| 5 | 0.1% |

8.3 Bus Captain Training and Monitoring

8.3.1 As part of KMB's dedication to provide safe, reliable and comfortable services for our passengers, comprehensive systems of bus captain training and monitoring have been set up in KMB. Elements of defensive driving, good driving attitude and emergency handling are incorporated in various training courses. Driving performance monitoring is carried out with systematic checking by driving instructors and followed up with disciplinary actions if required. Moreover, the new 'Drive Green' hardware and software as referenced in a previous Chapter will also help to identify those bus captains who have a higher incidence of 'harsh braking' on a given route than is normal. This information can be used as to ensure that appropriate proactive feedback is given to a bus captain with aim of promoting improved driving behaviour that will in turn serve to prevent/reduce 'loss of balance' cases (as well as accidents in general).

8.3.2 KMB buses have various safety related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed or are being installed on buses.

- Since November 2009, laser gun checks have been strengthened in various areas. The pass rate of laser gun checks from May 2014 to Apr 2015 is 99.44%, the frequency of check remains at 12 times per month (including day and night).

- The electronic tachographs are being used to monitor bus captain performance, especially with regard to speeding. The new 'Drive Green' Initiative has not only enhanced environmental management but also bus safety and ride comfort. An electronic tachograph is standard equipment on new buses. At the end of April 2016, a total of 3,845 KMB buses (i.e. 100% of registered fleet) were installed with electronic tachographs; and,
- Real-time Driving Indicators 駕駛提示器 (see above reference to the Drive Green initiative) are being installed in buses from mid 2013 which can help bus captains to utilize the driving skills learnt in the Eco-safe Driving Training Course. As denoted above, the benefits of such Eco-safe driving to the bus captains are:
 1. Reduce the risk of accidents while driving;
 2. Reduce stress levels and enhanced satisfaction of driving; and,
 3. Increase confidence in vehicle control and driving technique.

8.3.3 Details of training provided to new and serving bus captains are given in Annex 8.1.

8.3.4 Bus captains who are involved in serious traffic accidents will be suspended from driving duty and referred to receive professional counselling service. Remedial driving training will also be arranged for them.

8.3.5 To prevent similar traffic accidents from recurring, bus captains who are involved in repeated blameworthy traffic accidents are referred to the Bus Captain Training School to attend training. The training course includes defensive driving concepts, case studies, experience sharing and assessment.

8.3.6 Communication channels with staff and labour unions are well established and these channels facilitate the exchange of views on issues including safety.

8.3.7 As a safety enhancement measures, the Company has appointed a professional counselling service provider to operate a 24-hour Hotline (傾心線) for our staff and their immediate family members, including spouse and children, to raise and discuss any problems or difficulties they may encounter in their daily lives. The purpose is to provide a channel for staff members to relieve their pressure and seek help from independent professional counsellors as they may see fit. The discussions are strictly confidential and contents will not be revealed to the Company. The Company also organises a series of seminars on health and disease prevention for its staff members with the aim of raising their awareness of the importance of healthy living.

8.3.8 Alcoholic Breathing Test of Bus Captains is randomly conducted to control the incidence of driving under influence.

8.3.9 The current system of bus captain training will continue to be reviewed regularly.

8.3.10 The performance monitoring system will continue to uphold driving and safety standards.

8.3.11 A new training module, in the form of classroom discussion led by Driving Instructors of KMB's Bus Captain Training School, has been added to the bus captain training programmes from March 2016. Besides the new bus captains, other in-service bus captains have participated in this "Care for Passenger" classroom discussion when they attend refresher training. To make sure that the "Care for Passenger" message can reach existing bus captains in a timely manner, highlights of this training module has been available on the staff web from April 2016 and bus captains are required to log-on the staff web to go through the content.

8.4 Rostering, Scheduling and Duty Dispatch

8.4.1 KMB follows rostering, scheduling and duty dispatch systems having due regard to the Transport Department Guidelines on Driver Working Hours. The systems also ensure that only bus captains who satisfy training requirements are assigned to duties.

8.4.2 Arrangements are made to assign new bus captains to easy routes in the first few months of appointment to allow for a period of familiarisation and settling in.

8.4.3 In order to help new bus captains adapt to the new working environment, KMB has enhanced and introduced an all-rounded "Buddy Scheme for New Bus Captain" in May 2015. In this enhanced scheme, new bus captains are provided with New Bus Captain Orientation regarding bus operational and mechanical aspects. Experienced bus captains accompany new bus captains with the aim of providing the new bus captains with enhanced 'on the job' support in their early days with the Company. Hotline at the Bus Captain Training School is available for new bus captains to obtain consultation from driving instructors and mentors respectively.

8.4.4 Ongoing adjustment in journey time, layover time and meal break is made with the solicited input from frontline staff and efforts in this regard have been accelerated in recent years.

8.4.5 New scheduling software was implemented in Year 2013. It enhances the Company's ability in ensuring/ monitoring compliance with Driver Working Guidelines.

8.4.6 The percentage of duties in KMB that involve bus or route hopping was (59.1% and 27.0% respectively) as at the end of April 2016.

8.5 Bus Maintenance and Safety Features

8.5.1 All KMB buses are subject to a maintenance and quality assurance system which aims to keep the buses in top conditions. Speed monitoring and limiting devices are already installed on KMB buses.

8.5.2 The buses have many safety related features to enhance road and passenger safety, such as,

- seat belts have been retrofitted at the four seats on the first row on the upper deck ,
- double hand rails have been retrofitted to all double deck buses with straight staircases; and
- to help reduce accidents involving elderly passengers due to 'losing balance on board', the new bus specifications have included continuous railing, extending from the entrance into the saloon (as far as is practicable).

8.5.3 All KMB buses are subject to a stringent maintenance and quality assurance system which keeps the buses in good roadworthy conditions. The existing maintenance and quality assurance system will be continued.

8.5.4 Speed limiting devices have been a standard feature of all KMB buses.

8.5.5 KMB will continue to review and consider the retrofit of safety features as necessary to the vehicles to enhance road and passenger safety.

8.5.6 According to the bus manufacturers, the current bus models available do not have the required structural integrity to have all seats or seats in upper deck seatbelt-enabled. Currently, all SLF buses in KMB already have seatbelts fitted at the "vulnerable" positions, i.e. the exposed seats. It would be a complete bus body structural re-design of the vehicle to have all seats with seatbelts that are currently non-existent in the market. Not only do the standard seats need to be changed to ones with stronger anchorage points and wider pedestal legs, but the overall bus construction would need extensive localized reinforcement along the floor / inter-floor

structure that inevitably render the vehicle unnecessarily heavy, reduced passenger carrying capacity and less fuel efficient for public bus application.

8.6 Promotion of Passenger Safety

8.6.1 Safety awareness among bus captains is promoted by means of in-house videos, safety messages on waybills, internal posters, tool-box talk, and safety tips provided at staff website.

8.6.2 KMB produces its “Bus Captain Safe Driving Handbook” which is posted at staff website for all bus captains currently in its fifth edition (1 March 2016), the handbook includes driving regulations and points to note about safe driving, covering every aspect of a bus captain’s daily work. It is aimed at assisting bus captains in establishing a proper safe driving attitude and encouraging them to take all practical steps aimed at achieving safe driving.

8.6.3 Various projects to educate the public and passengers on the safe use of bus services have been undertaken. These include education video, on-board stickers, KMB Facebook and KMB Apps to remind passengers from taking safety precautions.

8.6.4 Education of passengers on the importance of road safety and safety on buses by using the Bus Stop Announcement System (“BSAS”) will continue. The safety messages were broadcast in Cantonese, English and Putonghua.

8.6.5 To further enhance passengers’ safety awareness when they ride on the buses, a new musical safety video called “Hold the Handrails – Safety First” was launched in November 2014. It was broadcast in Cantonese on the Multi-media On-board (MMOB) system in KMB buses. Passengers were encouraged to hold the handrails to prevent loss of balance.

8.6.6 KMB Facebook and KMB Apps have been used to increase passenger awareness to ‘Hold the Handrail’; to be available from March 2016.

8.6.7 Before Boarding: Existing efforts continue to remind passengers to hold the handrails by KMB Inspectors and Bus Stop Assistants at busy locations. Publicity ribbons promoting the message “車廂內緊握扶手” have been worn by KMB staff from March 2016 to catch the eye-balls of the waiting passengers.

8.6.8 While Boarding: A sticker “請緊握扶手” has been posted at a prominent place near the Octopus machine from March 2016 to catch the attention of boarding passengers.

8.6.9 During the Journey: The “請緊握扶手” message has been broadcast via the Bus Stop Announcement System before approaching each and every bus stop on all KMB routes. Re-arrangement of the sound track has started in March 2016.

8.6.10 Preparing to Alight: A sticker “請緊握扶手” has been posted at the exit door frame from March 2016.

8.7 Programmes for Elderly and Persons with Disabilities

8.7.1 To encourage young people to give their seat to passengers in need, KMB's depots regularly receive visits from local youth centres, primary and secondary schools and other educational institutes. In addition to being introduced to the depots' operations, the visitors are informed of the caring facilities in bus compartments, including the priority seats.

8.7.2 Also, KMB's volunteer club, FRIENDS OF KMB, is committed to promoting the message of “Good Passenger - Good Citizen”. FRIENDS OF KMB provides voluntary assistance at carnivals organized by District Councils, NGOs and Road Safety Council to enhance public awareness of road safety, offer seats to people in need and to promote safe travel tips for the elderly.

8.7.3 KMB makes use of its bus stop announcement system to broadcast relevant messages in Cantonese, English and Putonghua encouraging passengers to give their seats to those in need.

8.7.4 As part of its efforts to promote a caring culture, KMB broadcasts on all KMB buses fitted with MMOB an educational video, which encourages passengers to hold the handrail and to give their seat to those in need.

8.7.5 Stickers are placed on buses to raise awareness about the need to hold the handrail when travelling on buses.

8.7.6 To promote operational safety and share the experience of safe driving, representatives of the Police were invited to conduct a series of tailor-made Road Safety Lectures.

8.7.7 To further enhance safety awareness among elderly passengers, KMB have launched a series of promotional activities. These include visiting bus stops frequently used by the elderly to remind them to hold handrail whilst riding on buses.

8.7.8 Bus Stop Assistants have been assisting persons in need to find a seat and helping wheelchair users while boarding/alighting starting from May 2016.

8.8

Proposed Target and Other Measures

8.8.1 KMB proposes to use the 3-year average of 2013 to 2015 actual accident involvement rate of 2.88 (defined as the number of buses involved in accidents per million km operated) as a target for the purpose of this Five-Year Plan period. It represents a 9% reduction from the accident rate in 2013, the highest record among 2013-2015.

8.8.2 KMB has created a database of “Driving Tips in Special Attention Areas”. The database provides structured instructions and tips on best driving practices for all bus captains driving on particular routes, so that expertise and knowledge of the most experienced bus captains can be effectively transferred to all others. To promote bus captains’ awareness of safe driving, all relevant bus routes are listed in the database, supplemented by photos and layout drawings for easy reference.

8.8.3 The existing systems of Safety Bonus and Safety Awards will continue to promote safety awareness among bus captains. Safety awareness will continue to be emphasised in communications as stated above. In addition to the existing individual safe driving award, route-based awards on bus safety will be continued to encourage frontline staff to strive for continual improvement in bus safety performance.

8.8.4 Internal meetings will continue to be held regularly to monitor accident statistics and propose methods of accident reduction. The importance of systematic ‘feedback loops’ in safety management will be emphasised to ensure that lessons are learned from any incidents that do occur.

8.8.5 KMB will continue to communicate with Transport Department on road safety issues.

8.8.6 On-street monitoring and promotion by inspectors will be conducted in strategic locations on a regular basis to promote safety messages to passengers.

Annex 8.1

A. Regular Training for New Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|-----------------------------|--|--|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for Transport Department class 17 licence tests and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident black spot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus type familiarisation and route training (night drive included).</p> | 18 days full time (68 hours on road driving practice by each trainee and 18 hours classroom training) | Before posting to duty | 2 routes 3-4 bus types |
| 2. | Special Facilities Training | With the assistance of a simulated bus model, bus captains are trained on the operation of Octopus System, Bus Stop Announcement System, Destination Signboard and Fare Display. | Included in Basic Training | Before posting to duty | Not applicable |

B. Regular Training for Serving Bus Captains

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|------------------------------|---|-----------------------|---|--|
| 1. | Driving Enhancement Training | Experienced bus captains are trained on areas of defensive driving techniques to avoid traffic accident as well as advanced skills in bus manoeuvres. Service enhancement training is also included. | 1 day full time | For experienced bus captains. | 1 route & highway training 1 bus type |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 to 6 days full time | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | 1 route 1 bus type |
| 3. | Route Training | All bus captains will be trained before being posted to a specific route | 1 day full time | As needed | 1 route 1 bus type |
| 4. | Bus Type Training | All bus captains will be trained before being posted to drive a specific bus type | 1 day full time | As needed | 1 route 1 bus type |

- Training protocols are subject to ongoing review, albeit that the aim will be to continue to do all that is reasonably practicable to ensure the safety and comfort of passengers, staff and other road users at all times

LONG WIN BUS 5-YEAR PLAN



2013-2017



服務為先，顧客為本
For the Service, For the Customer



龍運巴士有限公司
Long Win Bus Company Limited

5337
PRIVATE & CONFIDENTIAL

8. SAFETY REVIEW AND IMPROVEMENT MEASURES IN BUS OPERATION

8.1 Introduction

8.1.1 Safety has always been the number one priority in LWB's operation. Safety is enhanced through the strengthening of training, deployment and performance monitoring as well as improvements in maintenance and bus design. Considerable efforts have also been spent in promotion of safety by passenger education and publicity.

8.1.2 This chapter includes an analysis of the types / causes of accidents for the past two calendar years (2010 and 2011) and the relationship of accident rates with respect to different factors including bus captain age, length of service, length of driving hours before the accident, bus type and etc.

8.1.3 This chapter further discusses the various measures being undertaken to promote safety.

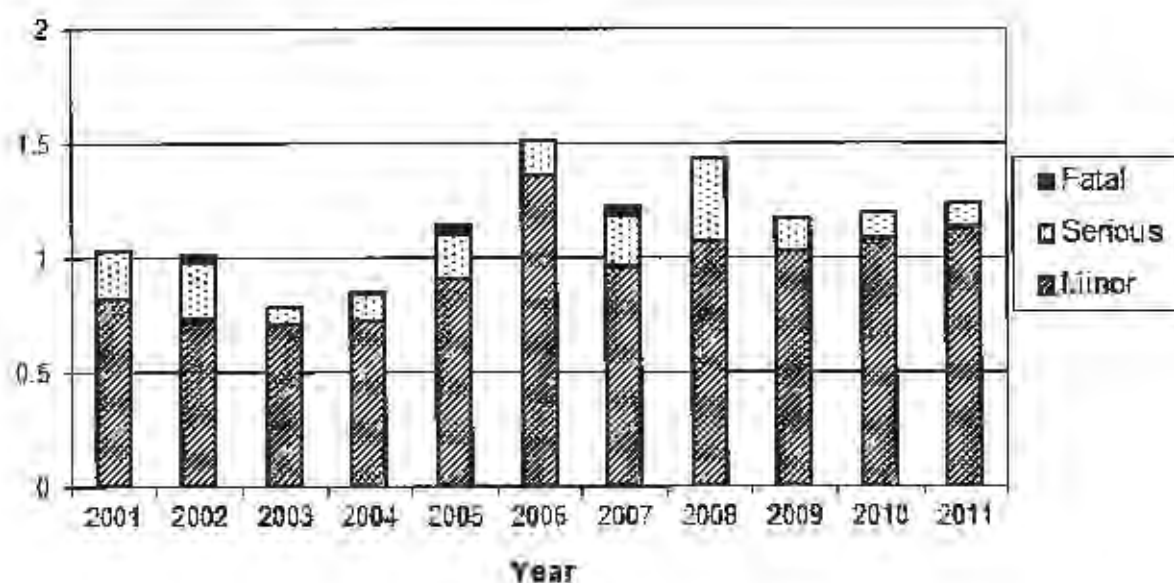
8.2 Analysis of Bus Accidents in the Past Two Calendar Years

8.2.1 A comprehensive analysis of accidents which occurred from November 2002 to October 2003 was conducted with the findings presented in the report "Review on Safety Arrangements to Enhance Road and Passenger Safety" submitted to Transport Department in February 2004. The analyses are repeated for the two-year period 2010 to 2011. The results are presented below.

Trend of Accident Rates

8.2.2 Accidents rates from 2001 to 2011 are shown in Figure 8.1. There was a mild increase in accident rate in 2011 compared to 2010. For the first 4 months of 2012, LWB's accident rate was 1.19 per million vehicle-km.

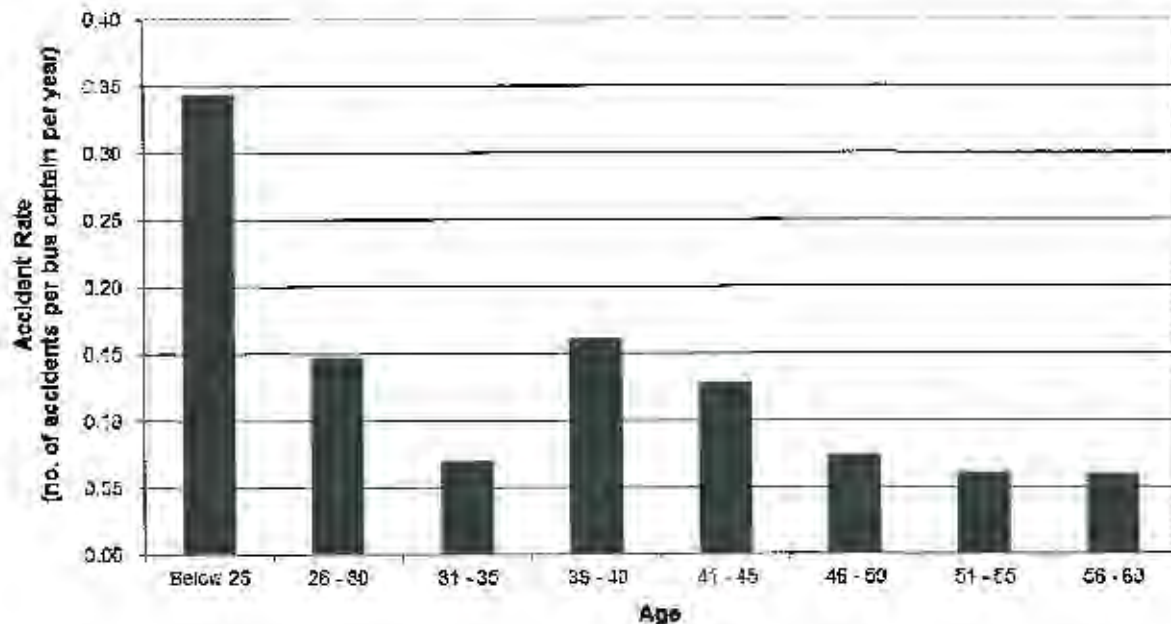
Figure 8.1 Number of accidents involving personal injuries and deaths (per million vehicle-km)



Accident Rate by Bus Captain Age

8.2.3 Results of the analysis of accident rate by bus captain age are shown in Figure 8.2. It is noted that the accident rate for bus captains aged below 26 was relatively higher, due mainly to the small number of bus captains in that particular age group. Otherwise, there is no conclusive evidence to indicate any systematic relationship between accident propensity and bus captain age.

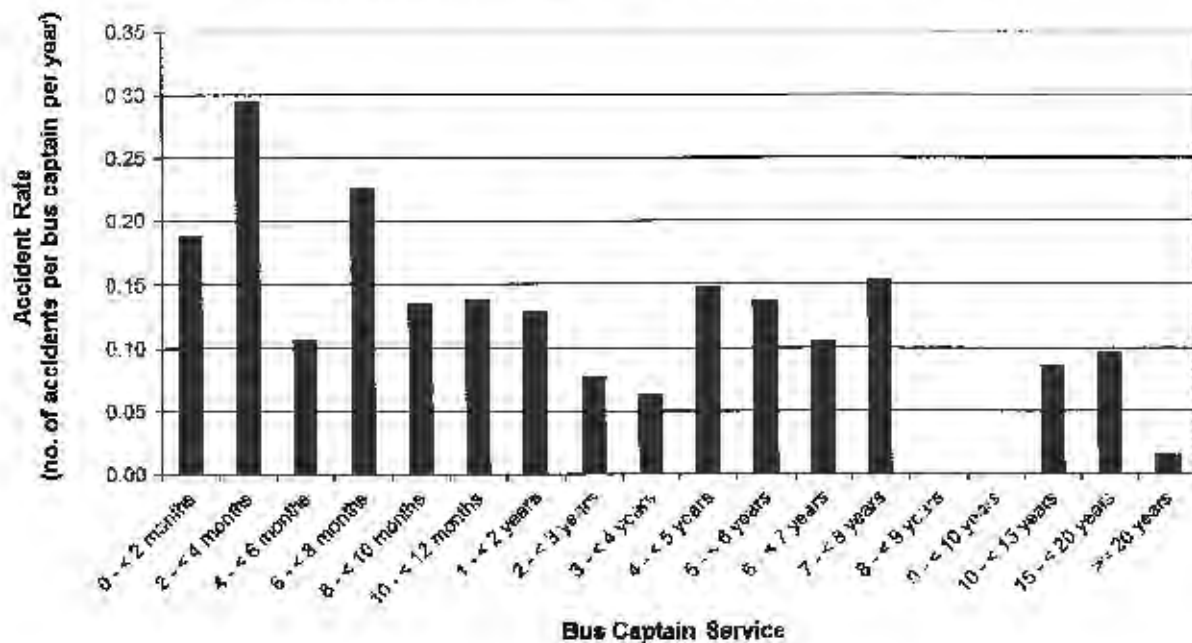
Figure 8.2 Accident Rate by Bus Captain Age



Accident Rate by Year of Service

8.2.4 The results of the analysis on accident rate by experience in terms of service in the Company are shown in Figure 8.3. It is noted that bus captains with service time less than four months had a comparatively higher accident rate than other groups. The main reason for this situation is mainly due to the fact that these bus captains were mostly new recruits who are more prone to accidents in their first few months of service. The accident rate then falls as experience is accumulated.

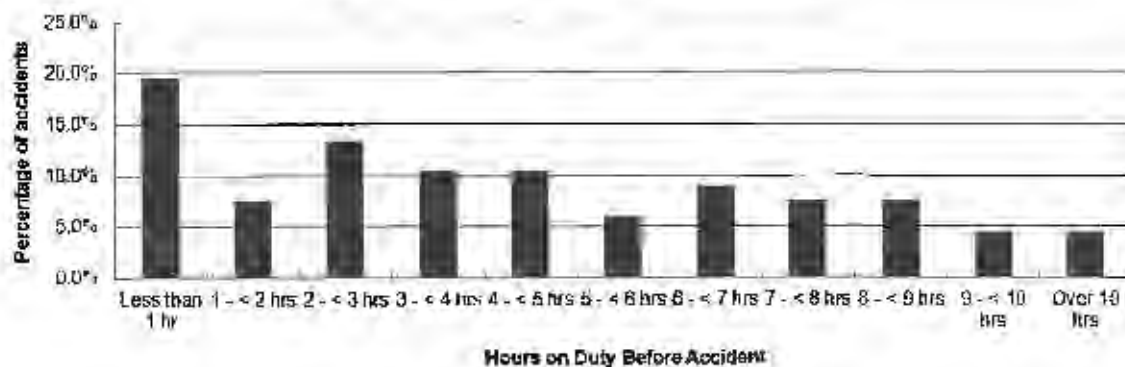
Figure 8.3 Accident Rate by Bus Captain Service in Company



Accident Rate by Hours on Duty Before Accident

8.2.5 The analysis results shown below in Figure 8.4 indicate that the occurrence of accident had no systematic relationship to the number of hours on duty before the accident.

Figure 8.4 Hours on Duty Before Accident



Accidents by Nature

8.2.6 The results of the analysis of accident nature are shown in Table 8.1 below.

Table 8.1 LWB Accidents by Nature of Accident

| Nature of Accident | |
|--|--------|
| Head On/Head Tail Collision | 23.9% |
| Glancing Collision | 4.5% |
| Collision with Vehicle Changing Lane | 9.0% |
| Collision at Junction | 1.5% |
| Collision at Roundabout | 3.0% |
| Collision while Bus/Other Vehicle Reversing | 1.5% |
| Hitting Stationary Object | 1.5% |
| Overturn/Topple | 1.5% |
| Injury to Pedestrian | 6.0% |
| Injury to Boarding/Alighting Passenger | 0.0% |
| Passenger Loss of Balance | 41.8% |
| Injury to Passenger Inside Bus - Other Natures | 1.5% |
| Others | 4.5% |
| Total | 100.0% |

8.2.7 The results are expressed in terms of percentage of all accidents during the two years 2010 – 2011. A significant portion of accidents (42%) were due to passenger losing balance. More than half of these cases were caused by the bus braking in traffic. Accidents with injuries sustained as a result of collisions accounted for about 43% of all the accidents.

Accidents by Liability

8.2.8 The breakdown of liability in the two-year period is shown in Table 8.2 below. For 73% of the cases, the bus captain was not blameworthy.

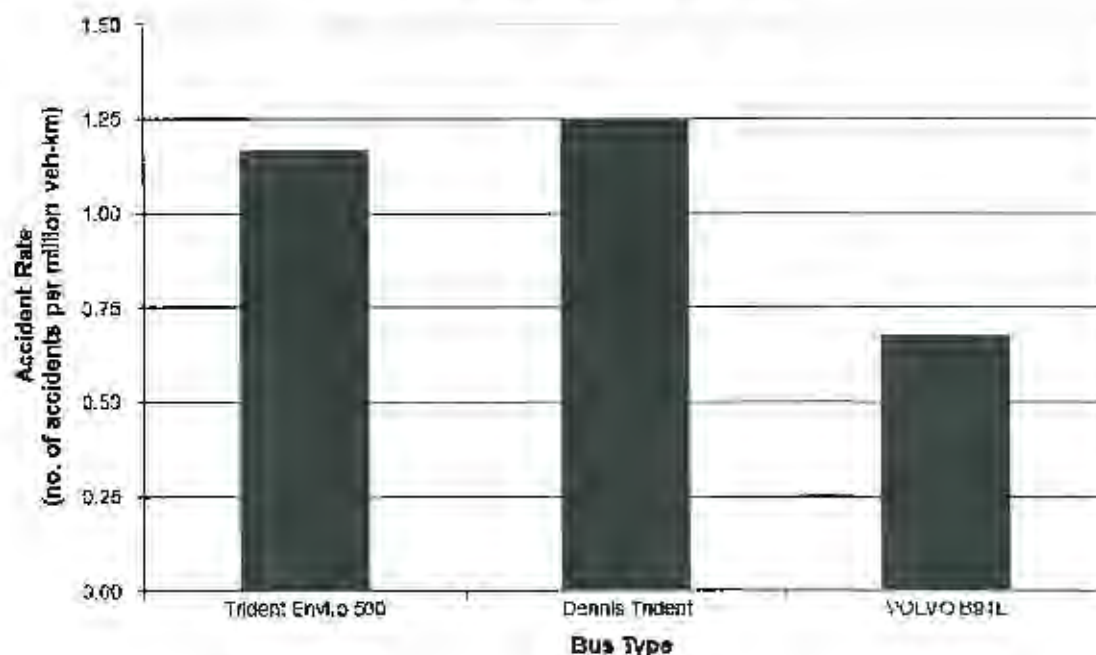
Table 8.2 Accident by Liability of Bus Captain

| Liability of Bus Captain | |
|--------------------------|--------|
| Negligent | 23.9% |
| Innocent | 73.1% |
| Suspended | 3.0% |
| Total: | 100.0% |

Accident by Bus Type

8.2.9 The results of the analysis on accidents by bus type are shown in Figure 8.5. As a result of the predominant numbers of Dennis Trident (60.4% as at end 2011) in the fleet of LWB, the findings do not provide conclusive evidence on the relationship between accident potential and bus type.

Figure 8.5 Accident Rate by Bus Type



Duty Deployment with regard to Number of Routes / Buses Operated

8.2.10 The percentage of duties in LWB that involve route or bus hopping is relatively small (13.0% and 36.8% respectively) as at the end of May 2012. Bus captains are deployed to these duties only if they have received the relevant bus route or type training. Our current accident database does not have the information regarding whether the accident occurred during a trip involving route or bus hopping.

Conclusion

8.2.11 The results of the analyses show no systematic relationship between accidents and bus captain age, driving experience in terms of years of service (apart from higher accident potential in the first 4 months of service) and hours on duty before accident. In about 73% of all the accident cases, our bus captains were not blameworthy for the accidents. Loss of balance of passengers on board the buses and passenger injuries sustained as a result of collisions accounted for a significant portion of the accidents.

8.3 Bus Captain Training and Monitoring

8.3.1 Comprehensive systems of bus captain training and monitoring have been adopted in LWB. Elements of defensive driving, good driving attitude and emergency handling are incorporated in the various training courses. Driving performance monitoring is carried out with systematic checking by monitors, driving instructors and mystery passengers, and followed up with disciplinary actions if required.

8.3.2 In order to enhance bus captains' ability to deal with emergency incidents such as "dashing out" of pedestrians onto the carriageway, and to improve bus ride comfort, bus captains of LWB attending Driving Enhancement Training and Remedial Training courses at KMB's Bus Captain Training School from March 2008 onwards will receive driving simulator training during the course.

8.3.3 To enhance the recruitment of suitable new bus captains, apart from driving record checks, a personality test for bus captain applicants has been introduced since the second half of 2007.

8.3.4 Details of training provided to new and serving bus captains are given in Annex 8.1

8.3.5 Communication channels with staff and unions are well established and these channels facilitate exchange of views on issues including safety.

8.3.6 As a safety enhancement measure, KMB has appointed a professional counselling service provider to operate a 24-hour Hotline (傾心線) for its staff and their immediate family members, including spouse and children, to raise and discuss any problems or difficulties they may encounter in their daily lives. The purpose is to provide a channel for staff members to relieve pressure and seek help from independent professional counsellors. This service is applicable to bus captains of LWB. The discussions are strictly confidential and contents will not be revealed to the Company. Staff of LWB can also attend a series of seminars on health and disease prevention organized by KMB for its staff members with the aim of raising their awareness of the importance of healthy living.

8.3.7 Bus drivers who are involved in serious traffic accidents will be suspended from driving duty and referred to receive professional counselling service. Remedial driving training will also be arranged for them.

8.4 Rostering, Scheduling and Duty Dispatch

8.4.1 LWB follows rostering, scheduling and duty dispatch systems which fully comply with the Transport Department Guidelines on Driver Working Hours. The systems also ensure that only bus captains who satisfy training requirements are assigned to duties.

8.4.2 Arrangements are made to assign new bus captains to a fixed route in the first few months of appointment to allow a period of familiarization and settling in.

8.4.3 In order to help new bus captains adapt to the new working environment, an orientation session is organized for new bus captains prior to the first duty reporting day while another service skills refreshing course will be conducted in a month later. On top of this, a "Caring Team" which comprises of some experienced outdoor staff has been set up in early 2011. New bus captains will be introduced with the members

of this team as their mentors for the following months when they report duty on the first working day. The objective of the above measures is to enhance the supports provided to new bus captains, in particular in the early stage of their employment with the company. A hotline set up by the Bus Captain Training School is also available for new bus captains for general enquiry and consultation of driving skills.

8.4.4 Ongoing adjustment in journey time, layover, and meal break is made with the solicited input from frontline staff.

8.5 Bus Maintenance and Safety Features

8.5.1 All LWB buses are subject to a maintenance and quality assurance system which aims to keep the buses in top conditions.

8.5.2 The buses have various safety-related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed on all LWB buses.

8.5.3 Seat belts are installed on all seats on double-deck buses licensed before 2005 and on exposed seats on double-deck buses licensed from 2005 onwards.

8.5.4 Interlock system is deployed to ensure exit door is closed before vehicle can move, or no door can be opened when vehicle is in motion.

8.6 Promotion of Passenger Safety

8.6.1 Safety Bonus, Safe Driving Annual Bonus and Safe Driving Award Schemes are adopted in LWB to positively promote safe driving.

8.6.2 Various projects to educate the public and passengers on the safe use of bus services have been undertaken. These include Announcement of Public Interest and education video. In addition, on-board stickers and messages remind passengers of safety precautions.

8.6.3 With effect from mid-March 2009, safety messages on “Please hold the handrail” and “Take care of children / elderly” have been added at appropriate on-route stops (subject to journey distance between stops) to be broadcasted / displayed by the Bus Stop Announcement System to remind passengers taking care of themselves while onboard the bus.

8.6.4 Safety awareness among bus captains is promoted by means of in-house videos, safety messages on waybills, safety reminder booklets, safety tips broadcasts on monitors in duty dispatch offices and the “Bus Captain of the Year Competition” which was organised by KMB.

8.6.5 Continuous monitoring of accident data and review of procedures and systems to enhance safety are being undertaken with internal cross-company meetings with KMB and participation in the Road Safety Forum for Franchised Buses organised by Transport Department.

8.6.6 To demonstrate commitment on safety, a new Safety Policy was established and approved in January 2011. Briefings to all relevant staff on new Safety Policy were completed in February 2011. Frontline management staff will continue to conduct briefings on safety and share the causes of accidents and driving tips to accident blackspots to bus captains periodically. To increase bus captains’ awareness on the briefings, Long Win operation management staff will join the safety briefings periodically and collect opinions/ feedbacks from bus captains related to safety and accident prevention. A second edition of “Bus Captain Safe Driving Handbook” was distributed to all bus captains from June 2011. The Handbook aims to remind bus captains to maintain a proper and safe driving attitude, so as to ensure the safety of passengers and other road users.

8.6.7 In line with its tradition of providing safe and reliable bus services, especially for those with special needs, such as the elderly, the disabled, pregnant women and infants, a “priority seats” trial scheme was launched in May 2011. Route E34 had been selected for the trial and the priority seats were equipped with a newly-designed headrest for easy recognition. Through the provision of priority seats, passengers in needs can enjoy a safer and more pleasant bus journey. In view of the positive feedback from the public, Long Win aims to complete fleet-wide adoption of this scheme by the end of 2012.

8.7 Measures to be Taken

8.7.1 The current system of bus captain training will continue with regular review of the training course objectives and contents.

8.7.2 2-days Driving Enhancement Training and Route Training are well in place.

8.7.3 The performance monitoring system will continue to uphold driving and safety standards.

8.7.4 The existing rostering, scheduling and duty dispatch systems are working well and fully comply with Transport Department's requirements. These current systems and practices will be maintained, with ongoing fine-tuning in response to staff feedback and enhancement using available technology.

8.7.5 All LWB buses are subject to a stringent maintenance and quality assurance system which keeps the buses in good roadworthy conditions. The existing maintenance and quality assurance system will be continued.

8.7.6 The electronic tachograph is now standard equipment on new buses. At the end of June 2011, all LWB buses are installed with electronic tachographs, which are used to monitor bus captain performance, especially with regard to speeding.

8.7.7 All LWB buses are equipped with speed limiting devices which limit the speed on level ground to 70 km/hour.

8.7.8 LWB will continue to review and consider the retrofit of safety features as necessary to the vehicles to enhance road and passenger safety.

8.7.9 Alcoholic breathing test had been introduced randomly to bus captains since October 2010 in order to enhance the message of "If you drink, don't drive". This practice will continue to enhance bus captains' safety awareness.

8.7.10 The existing systems of Safety Bonus and Safety Awards will be continued to positively promote safety awareness among bus captains. Safety awareness is emphasized in in-house VCDs, safety messages on waybills, the "Bus Captain of the Year Competition" (organised by KMB), safety bulletins showing accident numbers and accident rates, safety reminder booklet and visual presentations of wreckages of past accidents displayed at Duty Dispatch Offices.

8.7.11 Education of passengers on the importance of road safety and safety on buses will continue in the form of posters and reminders on buses, and using the Bus Stop Announcement System. This will be supplemented by education videos from time to time.

8.7.12 Cross-company meetings with KMB will be held regularly to monitor accident statistics and propose methods of accident reduction.

8.7.13 LWB will continue to participate in the Road Safety Forum for Franchised Buses organised by Transport Department, and will continue to communicate with Transport Department on road safety issues.

8.8 Target Accident Rate

8.8.1 Transport Department requested the Company to provide a target accident involvement rate in terms of number per million vehicle-km operated as a measure to stimulate continuous improvement to the safety of LWB's bus operations via its letter ref. () in BD 79/63-1 dated 24 April 2012.

8.8.2 Having reviewed the average accident involvement rates of the past years, we continue to adopt the rate of 1.43 per million vehicle-km operated as target for this FPP. As mentioned in paragraph 8.2.8 above, 73% of our bus captains were not blameworthy for the accident cases that occurred in 2010 and 2011.

Annex 8.1

A. Regular Training for New Bus Captains*

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|-----------------------------|--|----------------------------|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for Transport Department Class 17 license test and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident black spot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus familiarization and route training (night drive included).</p> | 18 days full time | Before posting to duty | <p>3 routes</p> <p>3-4 bus types</p> |
| 2. | Special Facilities Training | With the assistance of a simulated bus model, bus captains are trained on the operation of Octopus System, Bus Stop Announcement System, Destination Signboard and Fare Display. | Included in Basic Training | Before posting to duty | Not applicable |
| 3. | Simulation training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response action. | Included in Basic Training | Before posting to duty | Not applicable |

* Training courses are conducted by Bus Captain Training School of KMB.

B. Regular Training for Serving Bus Captains*

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|------------------------------|---|--|--|--|
| 1. | Driving Enhancement Training | Experienced bus captains are trained on areas of defensive driving techniques to avoid traffic accident as well as advanced skills in bus maneuvers. Service enhancement training is also included. | 1 day full time | For experienced bus captains. | 1 route & highway training 1 bus type |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 to 6 days full time | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | 3 routes 1 bus type |
| 3. | Route Training | All bus captains will be trained before being posted to a specific route | 1 day full time | As needed | 1 route 1 bus type |
| 4. | Bus Type Training | All bus captains will be trained before being posted to drive a specific bus type | 1 day full time | As needed | 1 route 1 bus type |
| 5. | Safety Enhancement Training | As a corrective measure to prevent similar traffic accident from occurring. It is anticipated that the driving skill and driving attitude of bus captains concerned can be enhanced after receiving the training | 1.5 hours | For bus captains involved in traffic accident resulting in serious injury/fatal, or liable traffic accident resulting in slight injury | Not applicable |
| 6. | Simulator training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response actions. | Included in Driving Enhancement Training and Remedial Training | Included in Driving Enhancement Training and Remedial Training | Not applicable |

* Training courses are conducted by Bus Captain Training School of KMB.

LONG WIN BUS 5-YEAR PLAN 2014 - 2018



服務為先，顧客為本
For the Service, For the Customer



龍運巴士有限公司
Long Win Bus Company Limited

5352
PRIVATE & CONFIDENTIAL

8. SAFETY REVIEW AND IMPROVEMENT MEASURES IN BUS OPERATION

8.1 Introduction

8.1.1 Safety has always been the number one priority in LWB's operation. Safety is enhanced through the strengthening of training, deployment and performance monitoring as well as improvements in maintenance and bus design. Considerable efforts have also been spent in promotion of safety by passenger education and publicity.

8.1.2 This chapter includes an analysis of the types / causes of accidents for the past two calendar years (2011 and 2012) and the relationship of accident rates with respect to different factors including bus captain age, length of service, length of driving hours before the accident, bus type and etc.

8.1.3 This chapter further discusses the various measures being undertaken to promote safety.

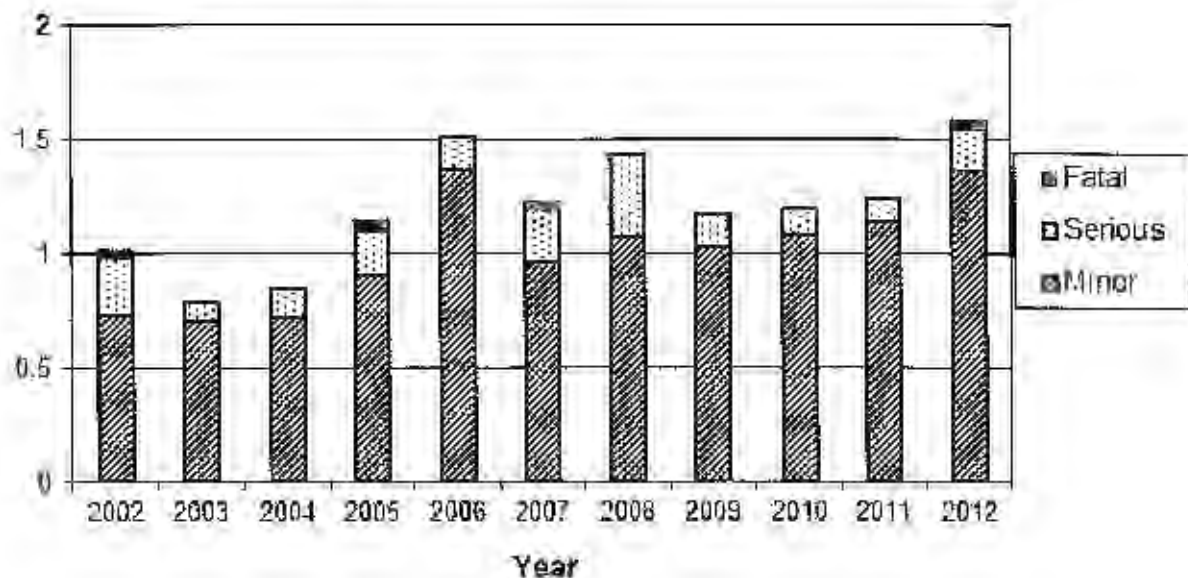
8.2 Analysis of Bus Accidents in the Past Two Calendar Years

8.2.1 A comprehensive analysis of accidents which occurred from November 2002 to October 2003 was conducted with the findings presented in the report "Review on Safety Arrangements to Enhance Road and Passenger Safety" submitted to Transport Department in February 2004. The analyses are repeated for the two-year period 2011 to 2012. The results are presented below.

Trend of Accident Rates

8.2.2 Accidents rates from 2002 to 2012 are shown in Figure 8.1. There was a increase in accident rate in 2012 compared to 2011. The increase of the figure in 2012 is mainly caused by two types of accident nature, which are head on / head tail collision, and collision with vehicle changing lane. Further explanation can be found in Section 8.2.7 and 8.2.8.

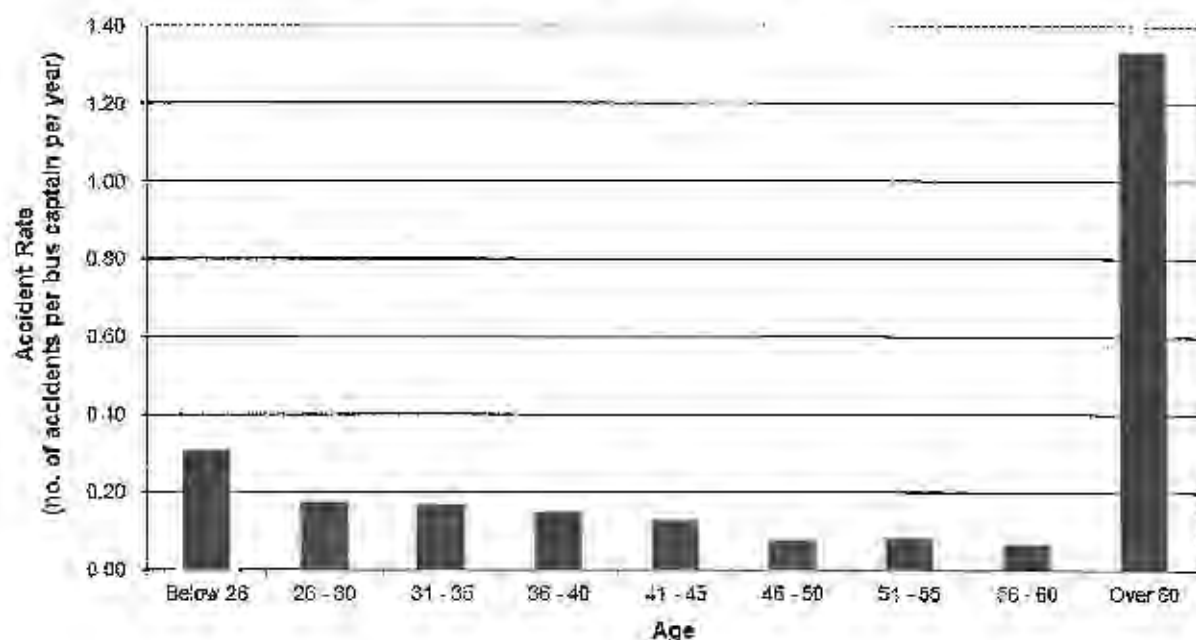
Figure 8.1 Number of accidents involving personal injuries and deaths (per million vehicle-km)



Accident Rate by Bus Captain Age

8.2.3 Results of the analysis of accident rate by bus captain age are shown in Figure 8.2. It is noted that the accident rate for bus captains aged over 60 was relatively higher, due mainly to the small number of bus captains in that particular age group. Otherwise, there is no conclusive evidence to indicate any systematic relationship between accident propensity and bus captain age.

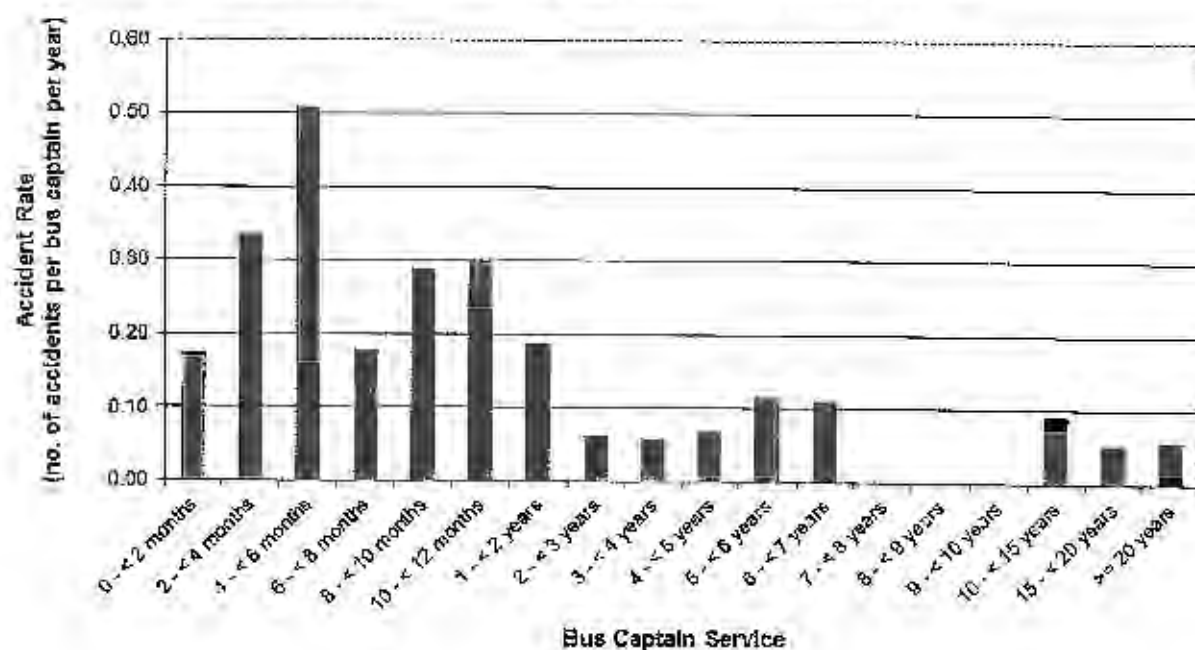
Figure 8.2 Accident Rate by Bus Captain Age



Accident Rate by Year of Service

8.2.4 The results of the analysis on accident rate by experience in terms of service in the Company are shown in Figure 8.3. It is noted that bus captains with service time less than six months had a comparatively higher accident rate than other groups. The main reason for this situation is mainly due to the fact that these bus captains were mostly new recruits who are more prone to accidents in their first few months of service. The accident rate then falls as experience is accumulated.

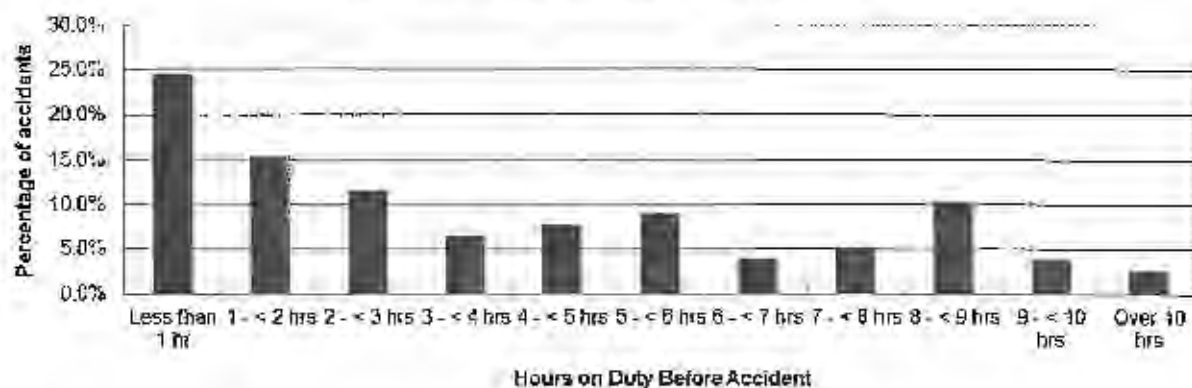
Figure 8.3 Accident Rate by Bus Captain Service In Company



Accident Rate by Hours on Duty Before Accident

8.2.5 The analysis results shown below in Figure 8.4 indicate that the occurrence of accident had no systematic relationship to the number of hours on duty before the accident.

Figure 8.4 Hours on Duty Before Accident



Accidents by Nature

8.2.6 The results of the analysis of accident nature are shown in Table 8.1 below.

Table 8.1 LWB Accidents by Nature of Accident.

| Nature of Accident | |
|--|--------|
| Head On/Head Tail Collision | 20.5% |
| Glancing Collision | 6.4% |
| Collision with Vehicle Changing Lane | 15.4% |
| Collision at Junction | 1.3% |
| Collision at Roundabout | 2.6% |
| Collision while Bus/Other Vehicle Reversing | 1.3% |
| Hitting Stationary Object | 2.6% |
| Overtake/Topple | 1.3% |
| Injury to Pedestrian | 7.7% |
| Injury to Boarding/Alighting Passenger | 0.0% |
| Passenger Loss of Balance | 39.8% |
| Injury to Passenger Inside Bus - Other Natures | 1.3% |
| Others | 0.0% |
| Total: | 100.0% |

8.2.7 The results are expressed in terms of percentage of all accidents during the two years 2011 – 2012. A significant portion of accidents (40%) were due to passenger losing balance. More than half of these cases were caused by the bus braking in traffic. A percentage of 38.6% of the accidents in 2012 are related to passenger loss of balance, and the ratio of accidents involving passenger losing balance on stairway and elsewhere except on stairway is 1:2.4.

8.2.8 Accidents with injuries sustained as a result of collisions accounted for about 48% of all the accidents. The head tail collision accidents with bus hit by other vehicle from rear increase from 5.9% in 2011 to 11.4% in 2012, and the collision accidents with changing lane vehicle increase from 8.8% in 2011 to 18.2% in 2012.

Accidents by Liability

8.2.9 The breakdown of liability in the two-year period is shown in Table 8.2 below. For 73% of the cases, the bus captain was not blameworthy.

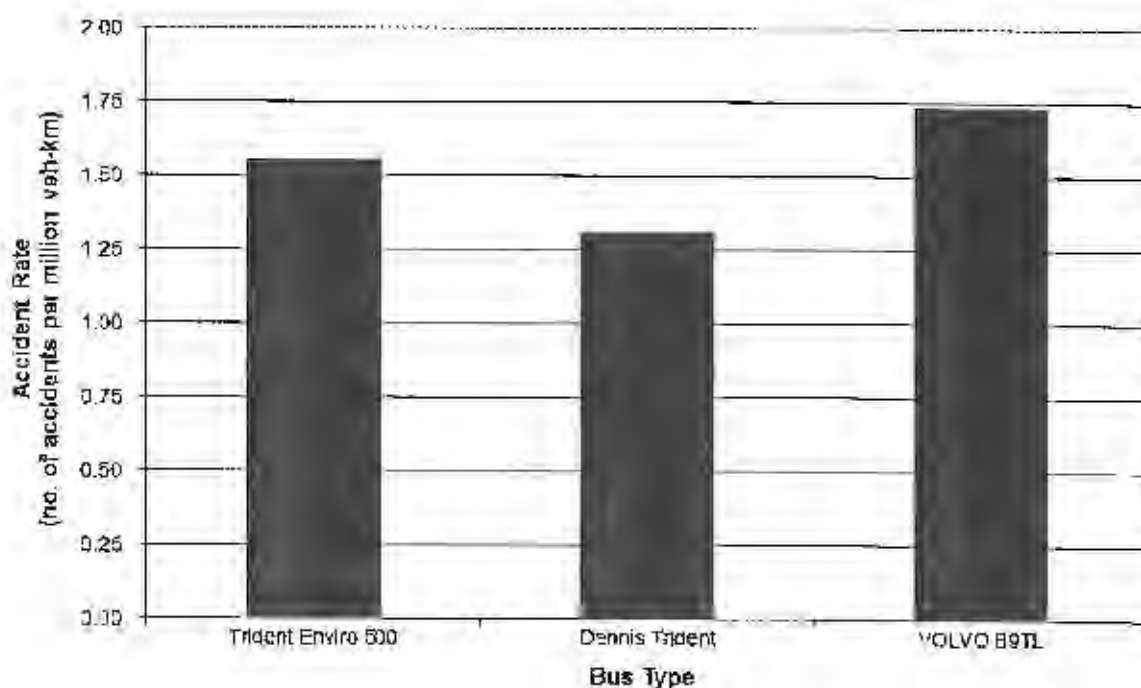
Table 8.2 Accident by Liability of Bus Captain

| Liability of Bus Captain | |
|--------------------------|--------|
| Negligent | 20.5% |
| Innocent | 73.1% |
| Suspended | 6.4% |
| Total | 100.0% |

Accident by Bus Type

8.2.10 The results of the analysis on accidents by bus type are shown in Figure 8.5. As a result of the predominant numbers of Dennis Trident (50.2% as at end 2012) in the fleet of LWB, the findings do not provide conclusive evidence on the relationship between accident potential and bus type.

Figure 8.5 Accident Rate by Bus Type



Duty Deployment with regard to Number of Routes / Buses Operated

8.2.11 The percentage of duties in LWB that involve route or bus hopping is relatively small (14.4% and 35.6% respectively) as at the end of May 2013. Bus captains are deployed to these duties only if they have received the relevant bus route or type training. Our current accident database does not have the information regarding whether the accident occurred during a trip involving route or bus hopping.

Conclusion

8.2.12 The results of the analyses show no systematic relationship between accidents and bus captain age, driving experience in terms of years of service (apart from higher accident potential in the first 6 months of service) and hours on duty before accident. In about 73% of all the accident cases, our bus captains were not blameworthy for the accidents. Loss of balance of passengers on board the buses and passenger injuries sustained as a result of collisions accounted for a significant portion of the accidents.

8.3 Bus Captain Training and Monitoring

8.3.1 Comprehensive systems of bus captain training and monitoring have been adopted in LWB. Elements of defensive driving, good driving attitude and emergency handling are incorporated in the various training courses. Driving performance monitoring is carried out with systematic checking by monitors, driving instructors and mystery passengers, and followed up with disciplinary actions if required.

8.3.2 In order to enhance bus captains' ability to deal with emergency incidents such as "dashing out" of pedestrians onto the carriageway, and to improve bus ride comfort, bus captains of LWB attending Driving Enhancement Training and Remedial Training courses at KMB's Bus Captain Training School from March 2008 onwards will receive driving simulator training during the course.

8.3.3 To enhance the recruitment of suitable new bus captains, apart from driving record checks, a personality test for bus captain applicants has been introduced since the second half of 2007.

8.3.4 Details of training provided to new and serving bus captains are given in Annex 8.1.

8.3.5 Communication channels with staff and unions are well established and these channels facilitate exchange of views on issues including safety.

8.3.6 As a safety enhancement measure, KMB has appointed a professional counselling service provider to operate a 24-hour Hotline (傾心線) for its staff and their immediate family members, including spouse and children, to raise and discuss any problems or difficulties they may encounter in their daily lives. The purpose is to provide a channel for staff members to relieve pressure and seek help from independent professional counsellors. This service is applicable to bus captains of LWB. The discussions are strictly confidential and contents will not be revealed to the Company. Staff of LWB can also attend a series of seminars on health and disease prevention organized by KMB for its staff members with the aim of raising their awareness of the importance of healthy living.

8.3.7 Bus drivers who are involved in serious traffic accidents will be suspended from driving duty and referred to receive professional counselling service. Remedial driving training will also be arranged for them.

8.4 Rostering, Scheduling and Duty Dispatch

8.4.1 LWB follows rostering, scheduling and duty dispatch systems which fully comply with the Transport Department Guidelines on Driver Working Hours. The systems also ensure that only bus captains who satisfy training requirements are assigned to duties.

8.4.2 Arrangements are made to assign new bus captains to a fixed route in the first few months of appointment to allow a period of familiarization and settling in.

8.4.3 In order to help new bus captains adapt to the new working environment, an orientation session is organized for new bus captains prior to the first duty reporting day while another service skills refreshing course will be conducted in a month later. On top of this, a "Caring Team" which comprises of some experienced outdoor staff has been set up in early 2011. New bus captains will be introduced with the members

of this team as their mentors for the following months when they report duty on the first working day. The objective of the above measures is to enhance the supports provided to new bus captains, in particular in the early stage of their employment with the company. A hotline set up by the Bus Captain Training School is also available for new bus captains for general enquiry and consultation of driving skills.

8.4.4 Ongoing adjustment in journey time, layover, and meal break is made with the solicited input from frontline staff.

8.5 Bus Maintenance and Safety Features

8.5.1 All LWB buses are subject to a maintenance and quality assurance system which aims to keep the buses in top conditions.

8.5.2 The buses have various safety-related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed on all LWB buses.

8.5.3 Seat belts are installed on all seats on double-deck buses licensed before 2005 and on exposed seats on double-deck buses licensed from 2005 onwards.

8.5.4 Interlock system is deployed to ensure exit door is closed before vehicle can move, or no door can be opened when vehicle is in motion.

8.6 Promotion of Passenger Safety

8.6.1 Safety Bonus, Safe Driving Annual Bonus and Safe Driving Award Schemes are adopted in LWB to positively promote safe driving.

8.6.2 Various projects to educate the public and passengers on the safe use of bus services have been undertaken. These include Announcement of Public Interest and education video. In addition, on-board stickers and messages remind passengers of safety precautions.

8.6.3 With effect from mid-March 2009, safety messages on "Please hold the handrail" and "Take care of children / elderly" have been added at appropriate en-route stops (subject to journey distance between stops) to be broadcasted / displayed by the Bus Stop Announcement System to remind passengers taking care of themselves while onboard the bus.

8.6.4 Safety awareness among bus captains is promoted by means of in-house videos, safety messages on waybills, safety reminder booklets, safety tips broadcasts on monitors in duty dispatch offices and the "Bus Captain of the Year Competition" which was organised by KMB.

8.6.5 Continuous monitoring of accident data and review of procedures and systems to enhance safety are being undertaken with internal cross-company meetings with KMB and participation in the Road Safety Forum for Franchised Buses organised by Transport Department.

8.6.6 To demonstrate commitment on safety, a new Safety Policy was established and approved in January 2011. Briefings to all relevant staff on new Safety Policy were completed in February 2011. Frontline management staff will continue to conduct briefings on safety and share the causes of accidents and driving tips to accident blackspots to bus captains periodically. To increase bus captains' awareness on the briefings, Long Win operation management staff will join the safety briefings periodically and collect opinions/ feedbacks from bus captains related to safety and accident prevention. A second edition of "Bus Captain Safe Driving Handbook" was distributed to all bus captains from June 2011. The Handbook aims to remind bus captains to maintain a proper and safe driving attitude, so as to ensure the safety of passengers and other road users.

8.6.7 In line with its tradition of providing safe and reliable bus services, especially for those with special needs, such as the elderly, the disabled, pregnant women and infants, a "priority seats" trial scheme was launched in May 2011. Route E34 had been selected for the trial and the priority seats were equipped with a newly-designed headrest for easy recognition. Through the provision of priority seats, passengers in needs can enjoy a safer and more pleasant bus journey. In view of the positive feedback from the public, LWB have completed fleet-wide adoption of this scheme by the end of 2012.

8.7 Measures to be Taken

8.7.1 The current system of bus captain training will continue with regular review of the training course objectives and contents.

8.7.2 2-days Driving Enhancement Training and Route Training are well in place.

8.7.3 The performance monitoring system will continue to uphold driving and safety standards.

8.7.4 The existing rostering, scheduling and duty dispatch systems are working well and fully comply with Transport Department's requirements. These current systems and practices will be maintained, with ongoing fine-tuning in response to staff feedback and enhancement using available technology.

8.7.5 All LWB buses are subject to a stringent maintenance and quality assurance system which keeps the buses in good roadworthy conditions. The existing maintenance and quality assurance system will be continued.

8.7.6 The electronic tachograph is now standard equipment on new buses. At the end of June 2011, all LWB buses are installed with electronic tachographs, which are used to monitor bus captain performance, especially with regard to speeding.

8.7.7 All LWB buses are equipped with speed limiting devices which limit the speed on level ground to 70 km/hour.

8.7.8 LWB will continue to review and consider the retrofit of safety features as necessary to the vehicles to enhance road and passenger safety.

8.7.9 Alcoholic breathing test had been introduced randomly to bus captains since October 2010 in order to enhance the message of "If you drink, don't drive". This practice will continue to enhance bus captains' safety awareness.

8.7.10 The existing systems of Safety Bonus and Safety Awards will be continued to positively promote safety awareness among bus captains. Safety awareness is emphasized in in-house VCDs, safety messages on waybills, the "Bus Captain of the Year Competition" (organised by KMB), safety bulletins showing accident numbers and accident rates, safety reminder booklet and visual presentations of wreckages of past accidents displayed at Duty Dispatch Offices.

8.7.11 Education of passengers on the importance of road safety and safety on buses will continue in the form of posters and reminders on buses, and using the Bus Stop Announcement System. This will be supplemented by education videos from time to time.

8.7.12 Cross-company meetings with KMB will be held regularly to monitor accident statistics and propose methods of accident reduction.

8.7.13 LWB will continue to participate in the Road Safety Forum for Franchised Buses organised by Transport Department, and will continue to communicate with Transport Department on road safety issues.

8.8 Target Accident Rate

8.8.1 Transport Department requested the Company to provide a target accident involvement rate in terms of number per million vehicle-km operated as a measure to stimulate continuous improvement to the safety of LWB's bus operations via its letter ref. TD BR 79/63-1 dated 2 May 2013.

8.8.2 Having reviewed the average accident involvement rates of the past years, we continue to adopt the rate of 1.43 per million vehicle-km operated as target for this FPP. As mentioned in paragraph 8.2.9 above, 73% of our bus captains were not blameworthy for the accident cases that occurred in 2011 and 2012.

Annex 8.1

A. Regular Training for New Bus Captains*

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|-----------------------------|--|----------------------------|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for Transport Department Class 17 license test and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident black spot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus familiarization and route training (night drive included).</p> | 18 days full time | Before posting to duty | <p>3 routes</p> <p>3-4 bus types</p> |
| 2. | Special Facilities Training | With the assistance of a simulated bus model, bus captains are trained on the operation of Octopus System, Bus Stop Announcement System, Destination Signboard and Fare Display. | Included in Basic Training | Before posting to duty | Not applicable |
| 3. | Simulation training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response action. | Included in Basic Training | Before posting to duty | Not applicable |

* Training courses are conducted by Bus Captain Training School of KMB.

B. Regular Training for Serving Bus Captains*

| | Training Type | Nature | Duration | Frequency | No. of route / bus type trained |
|----|------------------------------|---|--|--|--|
| 1. | Driving Enhancement Training | Experienced bus captains are trained on areas of defensive driving techniques to avoid traffic accident as well as advanced skills in bus maneuvers. Service enhancement training is also included. | 1 day full time | For experienced bus captains. | 1 route & highway training 1 bus type |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 to 6 days full time | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | 3 routes 1 bus type |
| 3. | Route Training | All bus captains will be trained before being posted to a specific route | 1 day full time | As needed | 1 route 1 bus type |
| 4. | Bus Type Training | All bus captains will be trained before being posted to drive a specific bus type | 1 day full time | As needed | 1 route 1 bus type |
| 5. | Safety Enhancement Training | As a corrective measure to prevent similar traffic accident from occurring. It is anticipated that the driving skill and driving attitude of bus captains concerned can be enhanced after receiving the training | 1.5 hours | For bus captains involved in traffic accident resulting in serious injury/fatal; or liable traffic accident resulting in slight injury | Not applicable |
| 6. | Simulator training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response actions. | Included in Driving Enhancement Training and Remedial Training | Included in Driving Enhancement Training and Remedial Training | Not applicable |

* Training courses are conducted by Bus Captain Training School of KMB.



LONG WIN BUS

5-YEAR PLAN 2015 - 2019

8. SAFETY REVIEW AND IMPROVEMENT MEASURES IN BUS OPERATION

8.1 Introduction

8.1.1 Safety is always the number one priority in LWB's operation. Safety is enhanced through the strengthening of communications, documentation training, deployment and performance monitoring as well as improvements in maintenance and bus design. Considerable efforts have also been spent in promotion of safety by passenger education and publicity.

8.1.2 This chapter includes an analysis of the types / causes of accidents for the past two calendar years (2012 and 2013) and the relationship of accident rates with respect to different factors including bus captain age, length of service, length of driving hours before the accident, bus type and etc.

8.1.3 This chapter further discusses the various measures being undertaken to promote safety.

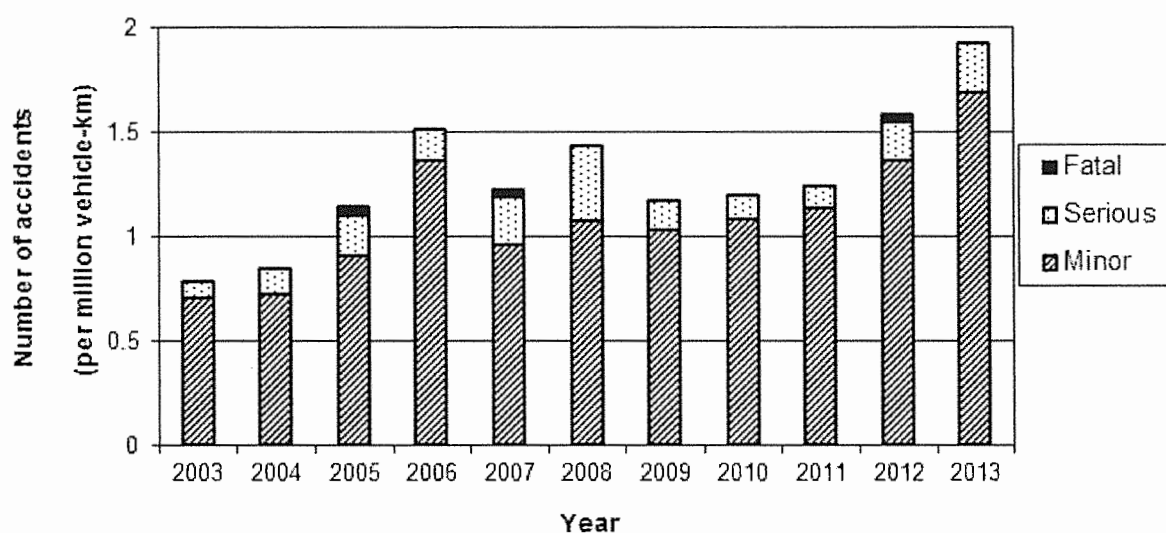
8.2 Analysis of Bus Accidents in the Past Two Calendar Years

8.2.1 The analyses are made for the two-year period 2012 to 2013. The results are presented below.

Trend of Accident Rates

8.2.2 Accidents rates from 2003 to 2013 are shown in Figure 8.1. There was an increase in accident rate in 2013 compared to 2012. The increase of the figure in 2013 is mainly caused by two types of accident nature, which are head on / head tail collision and passenger loss of balance. Further details are shown in paragraph 8.2.6 to 8.2.9.

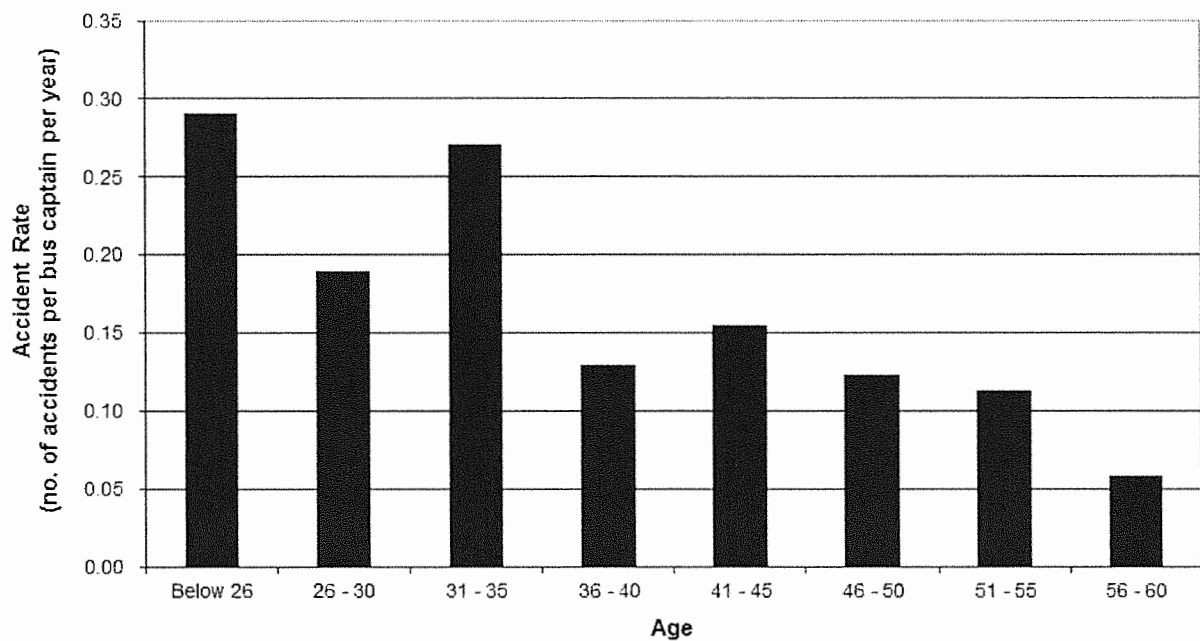
**Figure 8.1 Number of accidents involving personal injuries and deaths
(per million vehicle-km)**



Accident Rate by Bus Captain Age

8.2.3 Results of the analysis of accident rate by bus captain age are shown in Figure 8.2. The results show that younger bus captains are more prone to higher accident rates, but this is mainly due to the fact that these bus captains have relatively less bus driving experience and they are more prone to accidents in their first year of service. This is also shown in the relationship between accident rates and year of services in Section 8.2.4.

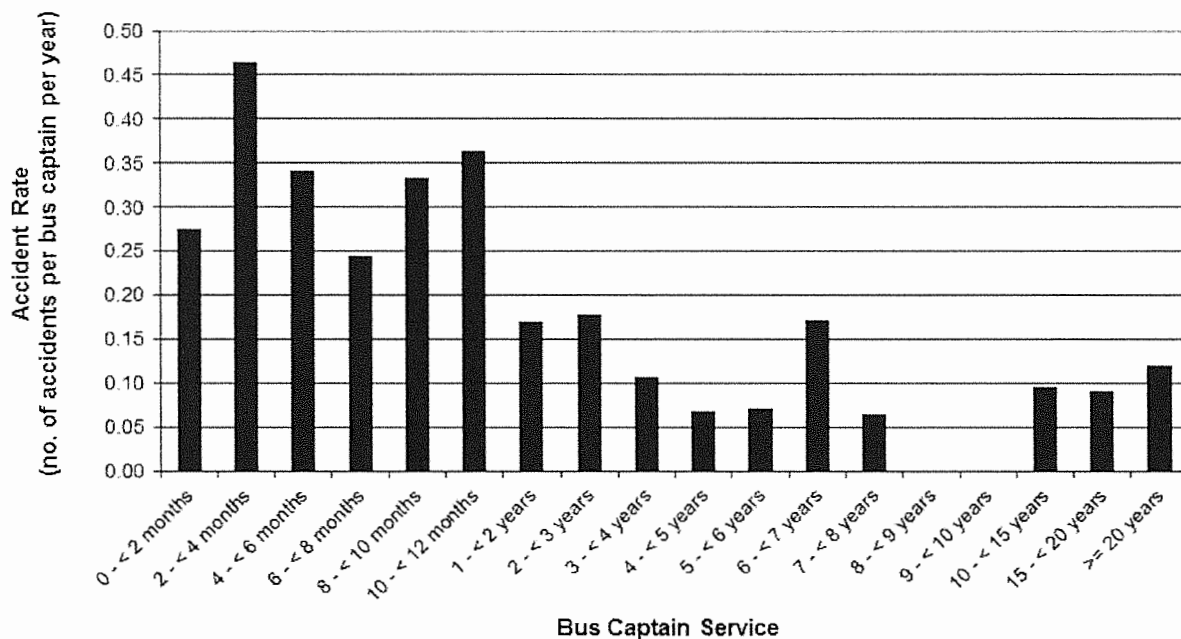
Figure 8.2 Accident Rate by Bus Captain Age



Accident Rate by Year of Service

8.2.4 The results of the analysis on accident rate by experience in terms of service in the Company are shown in Figure 8.3. As mentioned above, the likelihood of an accident occurring in the first year immediately following recruitment is relatively higher. The accident rate then falls as experience is accumulated.

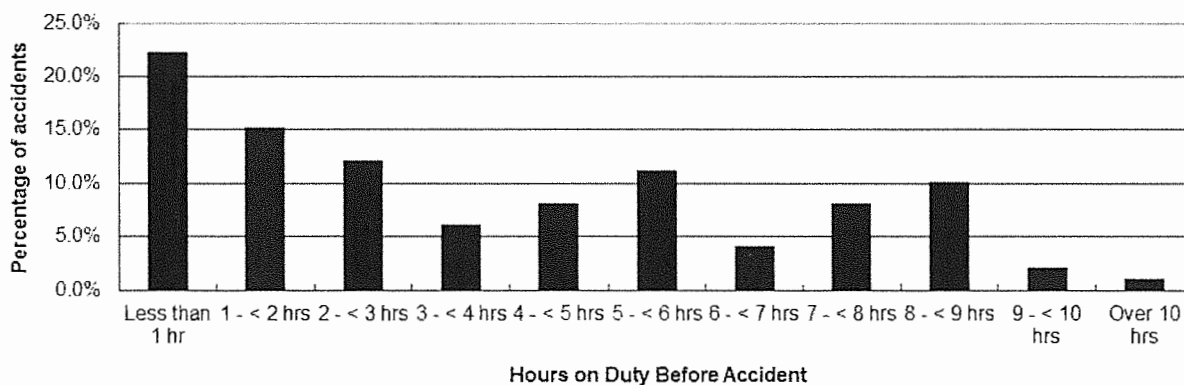
Figure 8.3 Accident Rate by Bus Captain Service in Company



Accident Rate by Hours on Duty Before Accident

8.2.5 The analysis results shown below in Figure 8.4 indicate that the occurrence of accident had no systematic relationship to the number of hours on duty before the accident.

Figure 8.4 Hours on Duty Before Accident



Accidents by Nature

8.2.6 The results of the analysis of accident nature breakdown by our classification for 2012 to 2013 are as follows:

Table 8.1 LWB Accidents by Nature

| Nature of Accident | 2012 | 2013 |
|---|-------------|-------------|
| Head On / Head Tail Collision | 9 | 15 |
| Glancing Collision | 3 | 2 |
| Collision with Vehicle - Changing lane | 9 | 6 |
| Collision while Bus / Other Vehicle Reversing | 0 | 0 |
| Collision at Junction | 1 | 2 |
| Collision at Round About | 0 | 0 |
| Hitting Stationary Object | 2 | 3 |
| Overturn/Topple | 0 | 0 |
| Injury To Pedestrian | 3 | 2 |
| Injury To Alighting/Boarding Passenger | 0 | 1 |
| Passenger Loss Of Balance | 17 | 23 |
| Injury To Passenger Inside Bus - Other Nature | 0 | 1 |
| Others | 0 | 0 |
| Total: | 44 | 55 |

8.2.7 The results of the analysis of accident nature by percentage are shown in Table 8.2 below.

Table 8.2 LWB Accidents by Nature in percentage

| Nature of Accident | |
|--|--------|
| Head On/Head Tail Collision | 24.3% |
| Glancing Collision | 5.1% |
| Collision with Vehicle Changing Lane | 15.2% |
| Collision at Junction | 0.0% |
| Collision at Roundabout | 3.0% |
| Collision while Bus/Other Vehicle Reversing | 0.0% |
| Hitting Stationary Object | 5.1% |
| Overturn/Topple | 0.0% |
| Injury to Pedestrian | 5.1% |
| Injury to Boarding/Alighting Passenger | 1.0% |
| Passenger Loss of Balance | 40.4% |
| Injury to Passenger Inside Bus - Other Natures | 1.0% |
| Others | 0.0% |
| Total: | 100.0% |

8.2.8 The above results are expressed in terms of percentage of all accidents during the two years 2012 – 2013. A significant portion of accidents (40.4%) were due to passenger losing balance. More than half of these cases were caused by the bus braking in traffic. The breakdown of the number of non-collision accident involving passenger casualty is provided as follows:

Table 8.3 Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty

| | Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty | Percentage over all accidents involving franchised buses | No. of accidents involving passenger losing balance on stairway (No. of casualty) | No. of accidents involving passenger injured by door (No. of casualty) | No. of accidents involving passenger losing balance elsewhere except on stairway (No. of casualty) |
|------|---|--|---|--|--|
| | (i)+(ii)+(iii) | | (i) | (ii) | (iii) |
| 2013 | 25 | 45.5% | 7 | 1 | 17 |

8.2.9 Accidents with injuries sustained as a result of different kinds of collisions accounted for about 48% while accidents with injury to pedestrians accounting for 5.1% of all of the accidents in 2012 – 2013.

Accidents by Liability

8.2.10 The breakdown of liability in the two-year period is shown in Table 8.4 below. For 71% of the cases, the bus captains were not blameworthy.

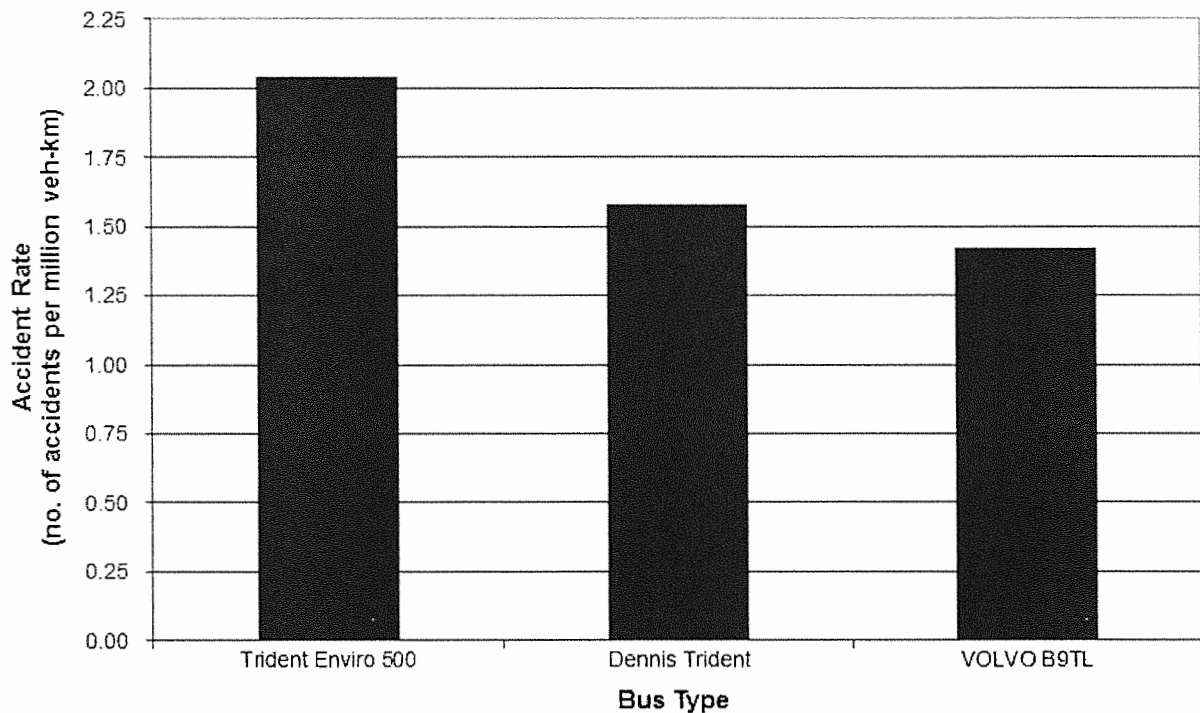
Table 8.4 Accident by Liability of Bus Captain

| Liability of Bus Captain | |
|---------------------------------|--------|
| Negligent | 26.3% |
| Innocent | 70.7% |
| Suspended | 3.0% |
| Total: | 100.0% |

Accident by Bus Type

8.2.11 The results of the analysis on accidents by bus type are shown in Figure 8.5. As a result of the predominant numbers of Trident Enviro 500 (48.3% as at end 2013) in the fleet of LWB, the findings do not provide conclusive evidence on the relationship between accident potential and bus type.

Figure 8.5 Accident Rate by Bus Type



Duty Deployment with regard to Number of Routes / Buses Operated

8.2.12 The percentage of duties in LWB that involve route or bus hopping is relatively small (17.9% and 35.0% respectively) as at the end of May 2014. Bus captains are deployed to these duties only if they have received the relevant bus route or type training. Our current accident database does not have the information regarding whether the accident occurred during a trip involving route or bus hopping.

Conclusion

8.2.13 The results of the analyses show no systematic relationship between accidents and bus captain age, driving experience in terms of years of service (apart from higher accident potential in the first year of service) and hours on duty before accident. In about 71% of all the accident cases, our bus captains were not blameworthy for the accidents. Loss of balance of passengers on board the buses and passenger injuries sustained as a result of collisions accounted for a significant portion of the accidents.

8.3 Bus Captain Training and Monitoring

8.3.1 As part of LWB's dedication to providing safe, reliable and comfortable services for our passengers, comprehensive systems of bus captain training and monitoring have been adopted in LWB. Elements of defensive driving, good driving attitude and emergency handling are incorporated in the various training courses. Driving performance monitoring is carried out with systematic checking by monitors, driving instructors and mystery passengers, and followed up with disciplinary actions if required.

8.3.2 To enhance road and passenger safety, LWB has implemented various safety-related measures and adopted speed monitoring / speed limiting devices on the buses. Both the electronic tachographs (which had been installed on LWB's entire fleet) and laser gun speed checks have been used to monitor bus captain performance, especially with regard to speed. Real-time Driving Indicators, referred to in the previous chapter and installed on 117 of LWB's buses, provide pro-active feedback to bus captains with the aim of promoting improved driving behaviour and reducing the risk of accidents.

8.3.3 In order to enhance bus captains' ability to deal with emergency incidents such as "dashing out" of pedestrians onto the carriageway, and to improve bus ride comfort, bus captains of LWB attending Driving Enhancement Training and Remedial Training courses at KMB's Bus Captain Training School from March 2008 onwards will receive driving simulator training during the course.

8.3.4 To enhance the recruitment of suitable new bus captains, apart from driving record checks, a personality test for bus captain applicants has been introduced since the second half of 2007.

8.3.5 To prevent similar traffic accidents from recurring, bus captains who are involved in blameworthy traffic accidents resulting in injury are referred to KMB Bus Captain Training School to attend Safety Enhancement Training. The training course includes defensive driving concepts, simulator training, case studies, experience sharing and assessment.

8.3.6 Details of training provided to new and serving bus captains are given in Annex 8.1.

8.3.7 Communication channels with staff and unions are well established and these channels facilitate exchange of views on issues including safety.

8.3.8 As a safety enhancement measure, KMB has appointed a professional counselling service provider to operate a 24-hour Hotline (傾心線) for its staff and their immediate family members, including spouse and children, to raise and discuss any problems or difficulties they may encounter in their daily lives. The purpose is to provide a channel for staff members to relieve pressure and seek help from independent professional counsellors. This service is applicable to bus captains of LWB. The discussions are strictly confidential and contents will not be revealed to the Company. Staff of LWB can also attend a series of seminars on health and disease prevention organized by KMB for its staff members with the aim of raising their awareness of the importance of healthy living.

8.3.9 Bus drivers who are involved in serious traffic accidents will be suspended from driving duty and referred to receive professional counselling service. Remedial driving training will also be arranged for them.

8.4 Rostering, Scheduling and Duty Dispatch

8.4.1 LWB follows rostering, scheduling and duty dispatch systems which fully comply with the Transport Department's "Guidelines on Bus Captain Working Hours, Rest Time and Meal Breaks" ("the Guidelines"). The systems also ensure that only bus captains who satisfy training requirements are assigned to duties. The Guidelines were last revised and implemented in October 2010. LWB completed the review on the duty schedules in the third quarter of 2012.

8.4.2 Arrangements are made to assign new bus captains to a fixed route in the first few months of appointment to allow a period of familiarization and settling in.

8.4.3 In order to help new bus captains adapt to the new working environment, an orientation session is organized for new bus captains prior to the first duty reporting day. On top of this, a "Caring Team" which comprises of some experienced outdoor staff has been set up in early 2011. New bus captains will be introduced with the members of this team as their mentors for the following months when they report duty on the first working day. The objective of the above measures is to enhance the supports provided to new bus captains, in particular in the early stage of their

employment with the company. A hotline set up by the Bus Captain Training School is also available for new bus captains for general enquiry and consultation of driving skills.

8.4.4 Ongoing adjustment in journey time, layover, and meal break is made with the solicited input from frontline staff.

8.5 Bus Maintenance and Safety Features

8.5.1 All LWB buses are subject to a maintenance and quality assurance system which aims to keep the buses in top conditions.

8.5.2 The buses have various safety-related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed on all LWB buses.

8.5.3 Seat belts are installed on all seats on double-deck buses licensed before 2005 and on exposed seats on double-deck buses licensed from 2005 onwards.

8.5.4 Interlock system is deployed to ensure exit door is closed before vehicle can move, or no door can be opened when vehicle is in motion.

8.5.5 LWB participated in a “priority seats” trial scheme in May 2011 by providing specially-designed priority seats with distinct purple-colour headrests and images of the elderly, pregnant woman, baby and people with disabilities. The trial proved to be successful in promoting a caring culture and raising the safety awareness of the bus captains. Fleet-wide retrofit of the distinct “priority seats” was completed by the end of 2012.

8.6 Promotion of Passenger Safety

8.6.1 Safety Bonus, Safe Driving Annual Bonus and Safe Driving Award Schemes are adopted in LWB to positively promote safe driving.

8.6.2 Various projects to educate the public and passengers on the safe use of bus services have been undertaken. These include Announcement of Public Interest and education video. In addition, on-board stickers and messages remind passengers of safety precautions.

8.6.3 With effect from mid-March 2009, safety messages on “Please hold the handrail” and “Take care of children / elderly” have been added at appropriate en-route stops (subject to journey distance between stops) to be broadcasted / displayed by the Bus Stop Announcement System to remind passengers taking care of themselves while onboard the bus.

8.6.4 Safety awareness among bus captains is promoted by means of in-house videos, safety messages on waybills, safety reminder booklets, safety tips broadcasts on monitors in duty dispatch offices and the “Bus Captain of the Year Competition” which was organised by KMB.

8.6.5 Continuous monitoring of accident data and review of procedures and systems to enhance safety are being undertaken with internal cross-company meetings with KMB and participation in the Road Safety Forum for Franchised Buses organised by Transport Department.

8.6.6 To demonstrate commitment on safety, a new Safety Policy was established and approved in January 2011. Briefings to all relevant staff on new Safety Policy were completed in February 2011. Frontline management staff will continue to conduct briefings on safety and share the causes of accidents and driving tips to accident blackspots to bus captains periodically. To increase bus captains’ awareness on the briefings, Long Win operation management staff will join the safety briefings periodically and collect opinions/ feedbacks from bus captains related to safety and accident prevention. A second edition of “Bus Captain Safe Driving Handbook” was distributed to all bus captains from June 2011. The Handbook aims to remind bus captains to maintain a proper and safe driving attitude, so as to ensure the safety of passengers and other road users.

8.6.7 LWB participated in a “priority seats” trial scheme in May 2011 by providing specially-designed priority seats with distinct purple-colour headrests and images of the elderly, pregnant woman, baby and people with disabilities. The trial proved to be successful in promoting a caring culture and raising the safety awareness of the bus captains. Fleet-wide retrofit of the distinct “priority seats” was completed by the end of 2012.

8.6.8 In line with its commitment of providing safe and reliable bus services, especially for those with special needs, such as the elderly, the disabled, pregnant women and infants, a “priority seats” trial scheme was launched in May 2011. Route E34 had been selected for the trial and the priority seats were equipped with a newly-designed headrest for easy recognition. Through the provision of priority seats, passengers in needs can enjoy a safer and more pleasant bus journey. In view of the positive feedback from the public, LWB have completed fleet-wide adoption of this scheme by the end of 2012.

8.7 Measures to be Taken

8.7.1 The current system of bus captain training will continue with regular review of the training course objectives and contents.

8.7.2 2-days Driving Enhancement Training and Route Training are well in place.

8.7.3 The performance monitoring system will continue to uphold driving and safety standards.

8.7.4 The existing rostering and duty dispatch systems are working well and fully comply with Transport Department’s requirements. A newly-sourced scheduling software system adopted in 2013 has enhanced the efforts of the Company in ensuring / monitoring full compliance with the Driver’s working Guidelines. These current systems and practices will be maintained, with ongoing fine-tuning in response to staff feedback and enhancement using available technology.

8.7.5 All LWB buses are subject to a stringent maintenance and quality assurance system which keeps the buses in good roadworthy conditions. The existing maintenance and quality assurance system will be continued.

8.7.6 The electronic tachograph is now standard equipment on new buses. The equipment installed satisfies Transport Department’s requirements for electronic data recording device issued by VSSD dated 17th October 2003. As at the end of June 2014, all LWB buses were installed with electronic tachographs for monitoring bus captain performance, especially with regard to speeding.

8.7.7 Bus Captains of LWB can access the “Driving Trips in Special Attention Area”, a database created to provide structured instructions and tips on best driving practices for all bus captains on LWB’s bus routes. One advantage of the database is that the expertise and knowledge of the most experienced bus captains can be effectively transferred to all others.

8.7.8 All LWB buses are equipped with speed limiting devices which limit the speed on level ground to 70 km/hour.

8.7.9 LWB will continue to review and consider the retrofit of safety features as necessary to the vehicles to enhance road and passenger safety.

8.7.10 Alcoholic breathing test had been introduced randomly to bus captains since October 2010 in order to enhance the message of “If you drink, don’t drive”. This practice will continue to enhance bus captains’ safety awareness.

8.7.11 10 buses were installed with CCTV system in the first quarter of 2013. The footage from these CCTV cameras will provide objective evidence for accident investigation and encourage positive behavioural change amongst bus captains.

8.7.12 A “Buddy Driver Programme” was launched in the second quarter of 2013. Experienced bus captains are assigned to accompany new bus captains with the aim of providing the new captains with enhanced “on-the-job” support in their early days of employment with the Company.

8.7.13 The existing systems of Safety Bonus and Safety Awards positively promote safety awareness among bus captains. Safety awareness is emphasized in the staff website, safety messages on waybills, the “Bus Captain of the Year Competition” (organised by KMB/LWB), safety bulletins showing accident numbers and accident rates, safety reminder booklet and visual presentations of wreckages of past accidents displayed at Duty Dispatch Offices.

8.7.14 Education of passengers on the importance of road safety and safety on buses will continue in the form of posters and reminders on buses, and using the Bus Stop Announcement System. This will be supplemented by education videos from time to time.

8.7.15 Cross-company meetings with KMB will be held regularly to monitor accident statistics and propose methods of accident reduction.

8.7.16 LWB will continue to participate in the Road Safety Forum for Franchised Buses organised by Transport Department, and will continue to communicate with Transport Department on road safety issues.

8.8 Target Accident Rate

8.8.1 Transport Department requested the Company to provide a target accident involvement rate in terms of number per million vehicle-km operated as a measure to stimulate continuous improvement to the safety of LWB's bus operations vide its letter ref. TD BR 79/63-1 dated 7 April 2014.

8.8.2 Having reviewed the average accident involvement rates of the past years, we propose to use the 3-year average of 2011 to 2013 actual accident involvement rate of 1.58 per million vehicle-km operated as target for this FPP. As mentioned in paragraph 8.2.10 above, 71% of our bus captains were not blameworthy for the accident cases that occurred in 2012 and 2013.

Annex 8.1

A. Regular Training for New Bus Captains*

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|-----------------------------|--|----------------------------|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for Transport Department Class 17 license test and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident black spot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus familiarization and route training (night drive included).</p> | 18 days full time | Before posting to duty | <p>2 routes</p> <p>3-4 bus types</p> |
| 2. | Special Facilities Training | With the assistance of a simulated bus model, bus captains are trained on the operation of Octopus System, Bus Stop Announcement System, Destination Signboard and Fare Display. | Included in Basic Training | Before posting to duty | Not applicable |
| 3. | Simulation training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response action. | Included in Basic Training | Before posting to duty | Not applicable |

* Training courses are conducted by Bus Captain Training School of KMB.

B. Regular Training for Serving Bus Captains*

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|------------------------------|---|--|--|--|
| 1. | Driving Enhancement Training | Experienced bus captains are trained on areas of defensive driving techniques to avoid traffic accident as well as advanced skills in bus maneuvers. Service enhancement training is also included. | 1 day full time | For experienced bus captains. | 1 route & highway training 1 bus type |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 to 6 days full time | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | 3 routes 1 bus type |
| 3. | Route Training | All bus captains will be trained before being posted to a specific route | 1 day full time | As needed | 1 route 1 bus type |
| 4. | Bus Type Training | All bus captains will be trained before being posted to drive a specific bus type | 1 day full time | As needed | 1 route 1 bus type |
| 5. | Safety Enhancement Training | As a corrective measure to prevent similar traffic accident from occurring. It is anticipated that the driving skill and driving attitude of bus captains concerned can be enhanced after receiving the training | 1.5 hours | For bus captains involved in traffic accident resulting in serious injury/fatal; or liable traffic accident resulting in slight injury | Not applicable |
| 6. | Simulator training | Bus Simulator training to provide scenario on potential on-road threats for trainees to rehearse relevant response actions. | Included in Driving Enhancement Training and Remedial Training | Included in Driving Enhancement Training and Remedial Training | Not applicable |

* Training courses are conducted by Bus Captain Training School of KMB.

5-YEAR PLAN 2016-2020



服務為先，顧客為本
For the service, For the customer

8. SAFETY REVIEW AND IMPROVEMENT MEASURES IN BUS OPERATION

8.1 Introduction

8.1.1 Safety is always the number one priority in LWB's operation. Safety is enhanced through the strengthening of communications, documentation, training, deployment and performance monitoring as well as improvements in maintenance and bus design. Considerable efforts have also been made to promote traffic safety by passenger education and publicity.

8.1.2 This chapter includes an analysis of the types / causes of accidents for the past two calendar years (2013 and 2014) and the relationship of accident rates with respect to different factors including bus captain age, length of service, length of driving hours before the accident, bus type, etc.

8.1.3 This chapter further discusses the various measures that have been or are being undertaken to promote safety.

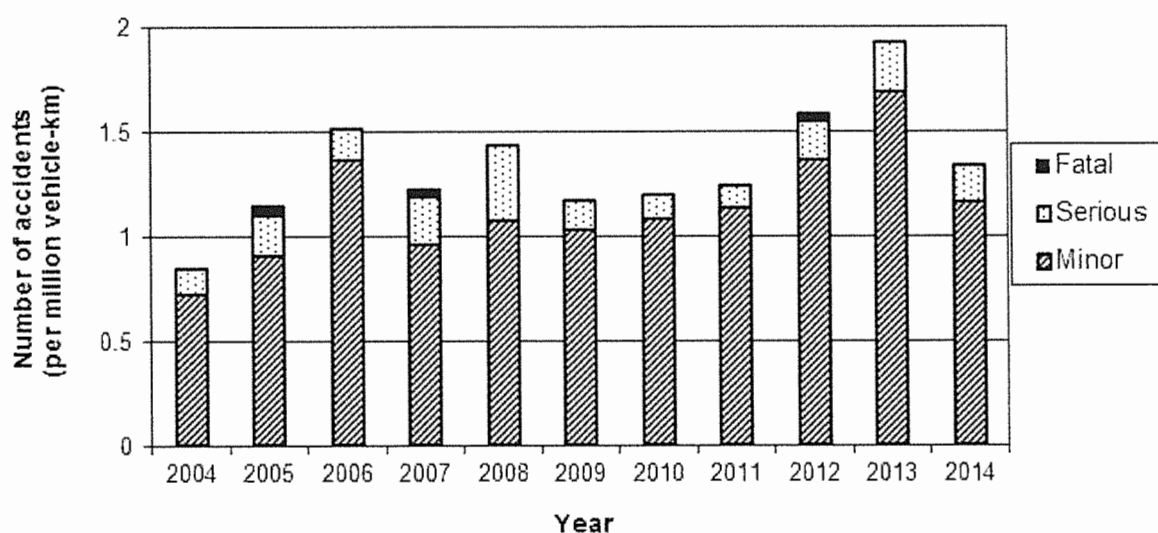
8.2 Analysis of Bus Accidents in the Past Two Calendar Years

8.2.1 The analyses are made for the two-year period 2013 to 2014. The results are presented below.

Trend of Accident Rates

8.2.2 Accidents rates from 2004 to 2014 are shown in Figure 8.1. There was a decrease in accident rate in 2014 compared to 2012 and 2013. The decrease of the figure in 2014 is mainly due to the improvement under two types of accident nature, which are head on / head tail collision and passenger loss of balance. Further details are shown in paragraph 8.2.6 to 8.2.9.

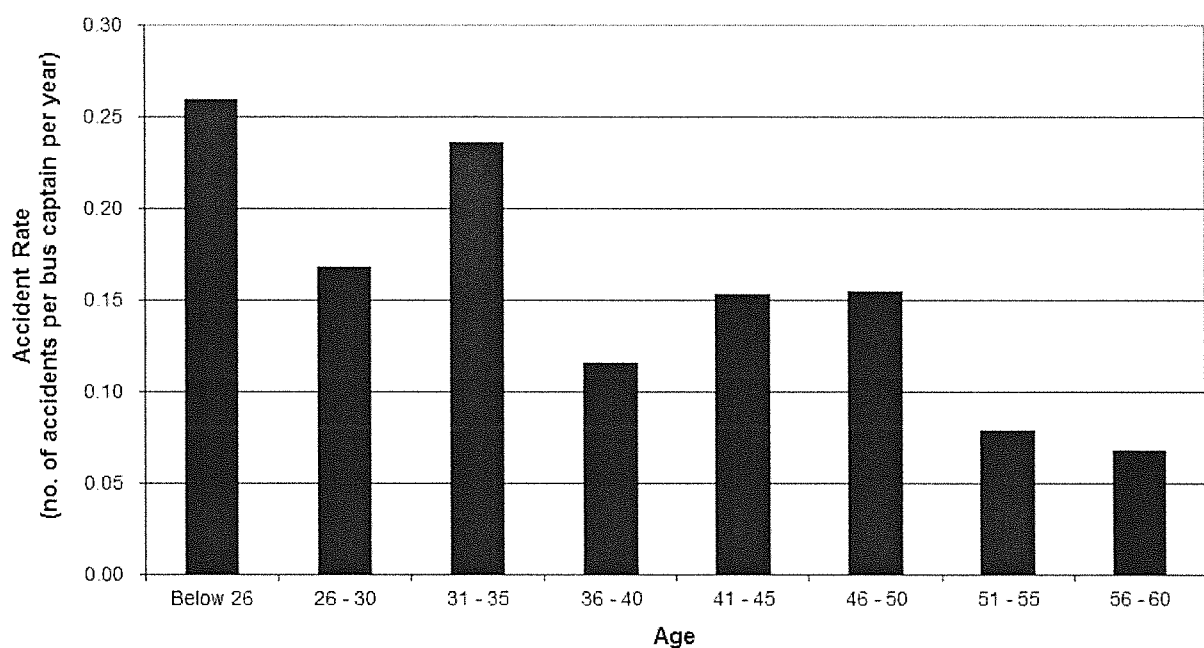
**Figure 8.1 Number of accidents involving personal injuries and deaths
(per million vehicle-km)**



Accident Rate by Bus Captain Age

8.2.3 Results of the analysis of accident rate by bus captain age are shown in Figure 8.2. The results show that younger bus captains have comparatively higher accident rates, but this is mainly due to the fact that these bus captains have relatively less bus driving experience and they are more prone to accidents in their first year of service. This is also shown in the relationship between accident rates and year of services in Section 8.2.4.

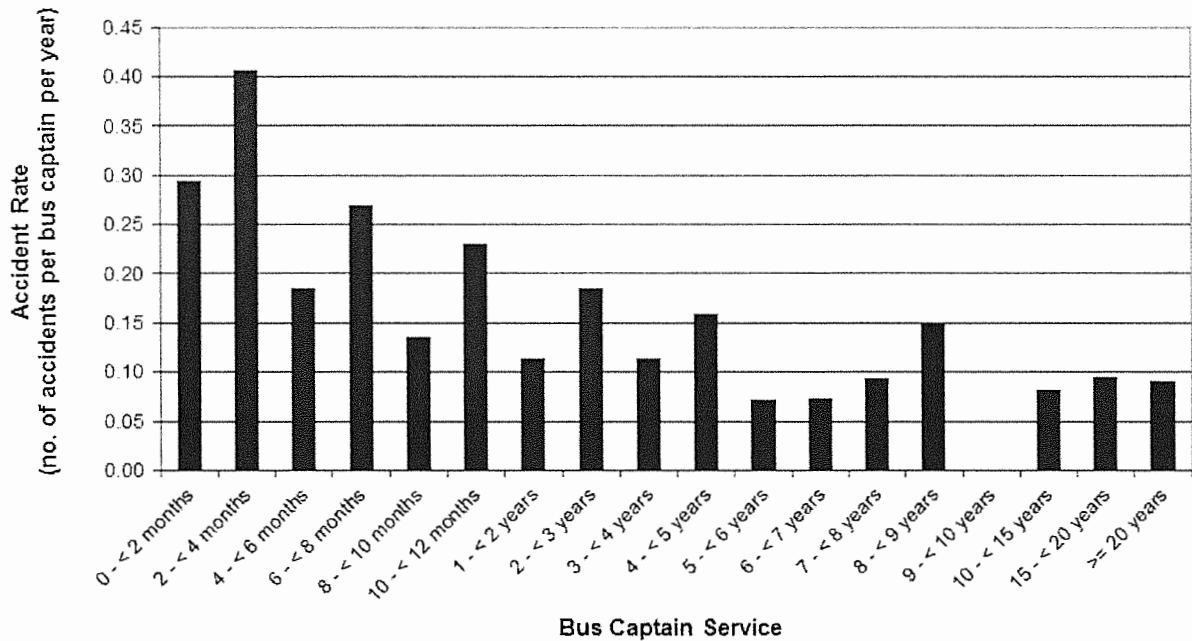
Figure 8.2 Accident Rate by Bus Captain Age



Accident Rate by Year of Service

8.2.4 The results of the analysis on accident rate by experience in terms of service in the Company are shown in Figure 8.3. As mentioned above, the likelihood of an accident occurring in the first year immediately following recruitment is relatively higher. The accident rate then falls as experience is accumulated.

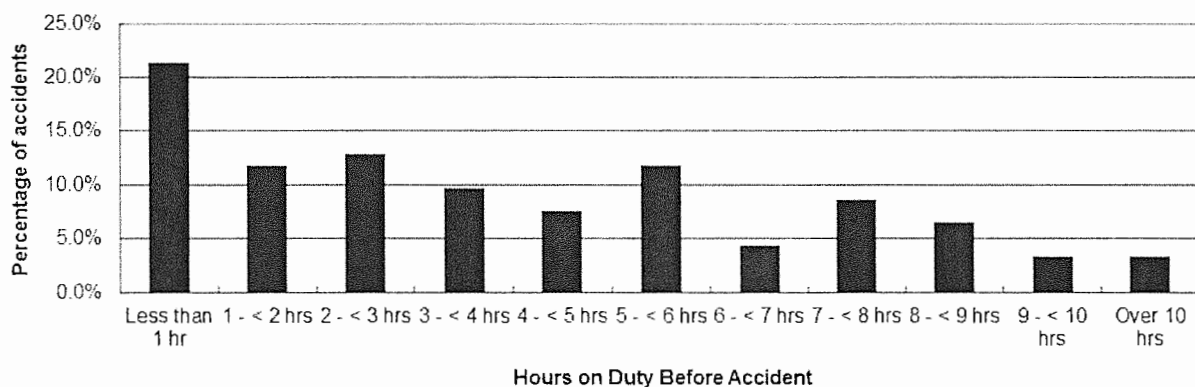
Figure 8.3 Accident Rate by Bus Captain Service in Company



Accident Rate by Hours on Duty Before Accident

8.2.5 The analysis results shown below in Figure 8.4 indicate that the occurrence of accident had no systematic relationship to the number of hours on duty before the accident.

Figure 8.4 Hours on Duty Before Accident



Accidents by Nature

8.2.6 The results of the analysis of accident nature breakdown by our classification for 2013 to 2014 are as follows:

Table 8.1 LWB Accidents by Nature

| Nature of Accident | 2013 | 2014 |
|---|------|------|
| Head On / Head Tail Collision | 15 | 6 |
| Glancing Collision | 2 | 0 |
| Collision with Vehicle - Changing lane | 6 | 4 |
| Collision while Bus / Other Vehicle Reversing | 0 | 1 |
| Collision at Junction | 2 | 2 |
| Collision at Roundabout | 0 | 0 |
| Hitting Stationary Object | 3 | 1 |
| Overturn/Topple | 0 | 0 |
| Injury To Pedestrian | 2 | 5 |
| Injury To Alighting/Boarding Passenger | 1 | 1 |
| Passenger Loss Of Balance | 23 | 17 |
| Injury To Passenger Inside Bus - Other Nature | 1 | 1 |
| Others | 0 | 1 |
| Total: | 55 | 39 |

8.2.7 The results of the analysis of accident nature by percentage are shown in Table 8.2 below.

Table 8.2 LWB Accidents by Nature in percentage

| Nature of Accident | |
|---|--------|
| Head On / Head Tail Collision | 22.4% |
| Glancing Collision | 2.1% |
| Collision with Vehicle - Changing lane | 10.6% |
| Collision while Bus / Other Vehicle Reversing | 1.1% |
| Collision at Junction | 4.3% |
| Collision at Roundabout | 0.0% |
| Hitting Stationary Object | 4.3% |
| Overturn/Topple | 0.0% |
| Injury To Pedestrian | 7.5% |
| Injury To Alighting/Boarding Passenger | 2.1% |
| Passenger Loss Of Balance | 42.6% |
| Injury To Passenger Inside Bus - Other Nature | 2.1% |
| Others | 1.1% |
| Total: | 100.0% |

8.2.8 The above results are expressed in terms of percentage of all accidents during the two years 2013 – 2014. A significant portion of accidents (42.6%) were due to passenger losing balance. More than half of these cases were caused by the bus braking in traffic. The breakdown of the number of non-collision accident involving passenger casualty is provided as follows:

Table 8.3 Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty

| | Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty | Percentage over all accidents involving franchised buses | No. of accidents involving passenger losing balance on stairway (No. of casualty) | No. of accidents involving passenger injured by door (No. of casualty) | No. of accidents involving passenger losing balance elsewhere except on stairway (No. of casualty) |
|------|---|--|---|--|--|
| | (i)+(ii)+(iii) | | (i) | (ii) | (iii) |
| 2014 | 19 | 48.7% | 3 | 1 | 15 |

8.2.9 Accidents with injuries sustained as a result of different kinds of collisions accounted for about 41% while accidents with injury to pedestrians accounting for 7.5% of all of the accidents in 2013 – 2014.

Accidents by Liability

8.2.10 The breakdown of liability in the two-year period is shown in Table 8.4 below. For 71% of the cases, the bus captains were not blameworthy.

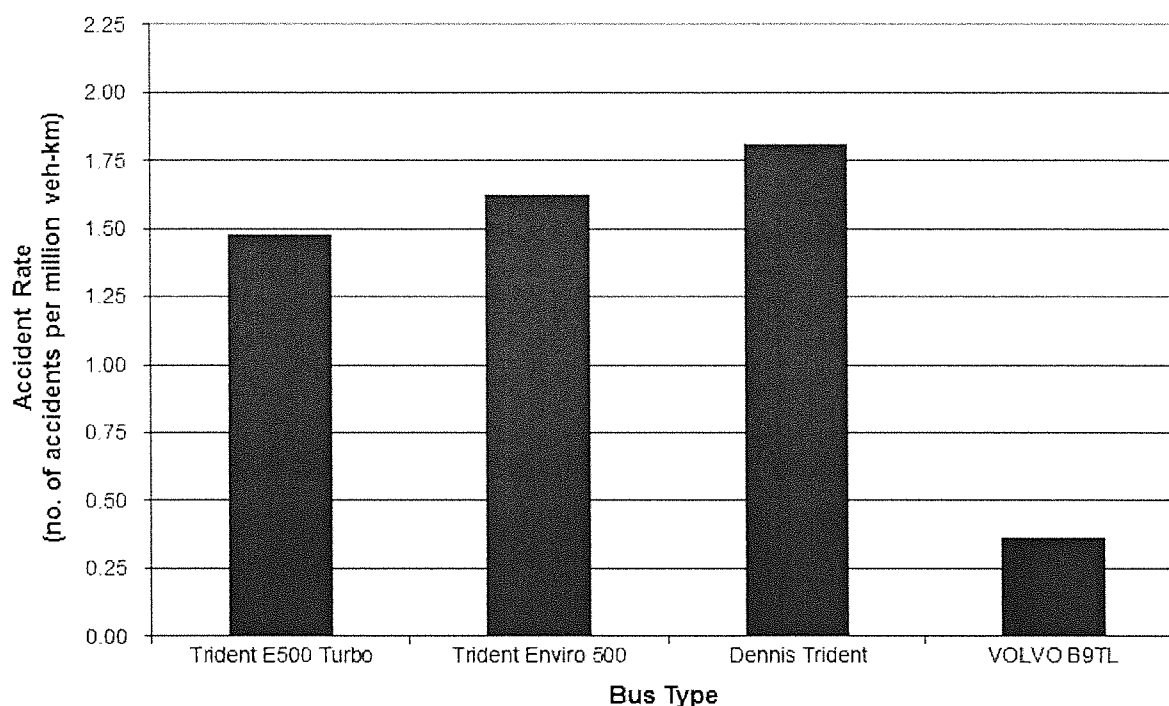
Table 8.4 Accident by Liability of Bus Captain

| Liability of Bus Captain | |
|--------------------------|--------|
| Negligent | 27.7% |
| Innocent | 71.3% |
| Suspended | 1.0% |
| Total: | 100.0% |

Accident by Bus Type

8.2.11 The results of the analysis on accidents by bus type are shown in Figure 8.5. As a result of the predominant numbers of Trident Enviro 500 and Trident E500 Turbo (68.7% as at end 2014) in the fleet of LWB, the findings do not provide conclusive evidence on the relationship between accident potential and bus type.

Figure 8.5 Accident Rate by Bus Type



Duty Deployment with regard to Number of Routes / Buses Operated

8.2.12 The percentage of duties in LWB that involve route or bus hopping is relatively small (23.2% and 33.8% respectively) as at the end of May 2015. Bus captains are deployed to these duties only if they have received the relevant bus route or type training. Our current accident database does not have the information regarding whether the accident occurred during a trip involving route or bus hopping.

Conclusion

8.2.13 The results of the analyses show no systematic relationship between accidents and bus captain age, driving experience in terms of years of service (apart from higher accident potential in the first year of service) and hours on duty before accident. In about 71% of all the accident cases, our bus captains were not blameworthy for the accidents. Loss of balance of passengers on board the buses and passenger injuries sustained as a result of collisions accounted for a significant portion of the accidents.

8.3 Bus Captain Training and Monitoring

8.3.1 As part of LWB's dedication to providing safe, reliable and comfortable services for our passengers, comprehensive systems of bus captain training and monitoring have been adopted in LWB. Elements of defensive driving, good driving attitude and emergency handling are incorporated in the various training courses. Driving performance monitoring is carried out with systematic checking by monitors, driving instructors and mystery passengers, and followed up with disciplinary actions if required.

8.3.2 To enhance road and passenger safety, LWB has implemented various safety-related measures and adopted speed monitoring / speed limiting devices on the buses. Both the electronic tachographs (which had been installed on LWB's entire fleet) and laser gun speed checks have been used to monitor bus captain performance, especially with regard to speed. Real-time Driving Indicators, referred to in the previous chapter and installed on full fleet of 184 LWB buses, provide pro-active feedback to bus captains with the aim of promoting improved driving behaviour and reducing the risk of accidents.

8.3.3 To enhance the recruitment of suitable new bus captains, apart from driving record checks, a personality test for bus captain applicants has been introduced since the second half of 2007.

8.3.4 To prevent similar traffic accidents from recurring, bus captains who are involved in blameworthy traffic accidents resulting in injury are referred to KMB Bus Captain Training School to attend Safety Enhancement Training. The training course includes defensive driving concepts, case studies, experience sharing and assessment.

8.3.5 Details of training provided to new and serving bus captains are given in Annex 8.1.

8.3.6 Communication channels with staff and unions are well established and these channels facilitate exchange of views on issues including safety.

8.3.7 As a safety enhancement measure, KMB has appointed a professional counselling service provider to operate a 24-hour Hotline (傾心線) for its staff and their immediate family members, including spouse and children, to raise and discuss

any problems or difficulties they may encounter in their daily lives. The purpose is to provide a channel for staff members to relieve pressure and seek help from independent professional counsellors. This service is applicable to bus captains of LWB. The discussions are strictly confidential and contents will not be revealed to the Company. Staff of LWB can also attend a series of seminars on health and disease prevention organized by KMB for its staff members with the aim of raising their awareness of the importance of healthy living.

8.3.8 Bus drivers who are involved in serious traffic accidents will be suspended from driving duty and referred to receive professional counselling service. Remedial driving training as referred to in 8.3.4 above will also be arranged for them.

8.4 Rostering, Scheduling and Duty Dispatch

8.4.1 LWB follows rostering, scheduling and duty dispatch systems which fully comply with the Transport Department's "Guidelines on Bus Captain Working Hours, Rest Time and Meal Breaks" ("the Guidelines"). The systems also ensure that only bus captains who satisfy training requirements are assigned to duties. The Guidelines were last revised and implemented in October 2010. LWB completed the review on the duty schedules in the third quarter of 2012.

8.4.2 Arrangements are made to assign new bus captains to a fixed route in the first few months of appointment to allow a period of familiarization and settling in.

8.4.3 In order to help new bus captains adapt to the new working environment, an orientation session is organized for new bus captains prior to the first duty reporting day. On top of this, a "Caring Team" which comprises of some experienced outdoor staff has been set up in early 2011. New bus captains will be introduced with the members of this team as their mentors for the following months when they report duty on the first working day. The objective of the above measures is to enhance the supports provided to new bus captains, in particular in the early stage of their employment with the company. A hotline set up by the Bus Captain Training School is also available for new bus captains for general enquiry and consultation of driving skills.

8.4.4 Ongoing adjustment in journey time, layover, and meal break is made with the solicited input from frontline staff.

8.5 Bus Maintenance and Safety Features

8.5.1 All LWB buses are subject to a maintenance and quality assurance system which aims to keep the buses in top conditions.

8.5.2 The buses have various safety-related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed on all LWB buses.

8.5.3 Seat belts are installed on all seats on double-deck buses licensed before 2005 and on exposed seats on double-deck buses licensed from 2005 onwards.

8.5.4 Interlock system is deployed to ensure exit door is closed before vehicle can move, or no door can be opened when vehicle is in motion.

8.5.5 Since the end of 2012, all LWB buses have provided specially-designed “priority seats” with distinct purple-colour headrests and images of the elderly, pregnant woman, baby and people with disabilities. The measure proved to be successful in promoting a caring culture and raising the safety awareness of the bus captains.

8.6 Promotion of Passenger Safety

8.6.1 Safety Bonus, Safe Driving Annual Bonus and Safe Driving Award Schemes are adopted in LWB to positively promote safe driving.

8.6.2 Various projects to educate the public and passengers on the safe use of bus services have been undertaken. These include Announcement of Public Interest and education video. In addition, on-board stickers and messages remind passengers of safety precautions.

8.6.3 With effect from mid-March 2009, safety messages on “Please hold the handrail” and “Take care of children / elderly” have been added at appropriate en-route stops (subject to journey distance between stops) to be broadcasted / displayed by the Bus Stop Announcement System to remind passengers taking care of themselves while onboard the bus.

8.6.4 Safety awareness among bus captains is promoted by means of in-house videos, safety messages on waybills, safety reminder booklets, safety tips broadcasts on monitors in duty dispatch offices and the “Bus Captain of the Year Competition” which was organised by KMB.

8.6.5 Continuous monitoring of accident data and review of procedures and systems to enhance safety are being undertaken with internal cross-company meetings with KMB and participation in the Road Safety Forum for Franchised Buses organised by Transport Department.

8.6.6 To demonstrate commitment on safety, a new Safety Policy was established and approved in January 2011. Briefings to all relevant staff on new Safety Policy were completed in February 2011. Frontline management staff will continue to conduct briefings on safety and share the causes of accidents and driving tips to accident blackspots to bus captains periodically. To increase bus captains’ awareness on the briefings, Long Win operation management staff will join the safety briefings periodically and collect opinions/ feedbacks from bus captains related to safety and accident prevention. A second edition of “Bus Captain Safe Driving Handbook” was distributed to all bus captains from June 2011. The Handbook aims to remind bus captains to maintain a proper and safe driving attitude, so as to ensure the safety of passengers and other road users.

8.6.7 LWB participated in a “priority seats” trial scheme in May 2011 by providing specially-designed priority seats with distinct purple-colour headrests and images of the elderly, pregnant woman, baby and people with disabilities. The trial proved to be successful in promoting a caring culture and raising the safety awareness of the bus captains. Fleet-wide retrofit of the distinct “priority seats” was completed by the end of 2012.

8.6.8 In line with its commitment of providing safe and reliable bus services, especially for those with special needs, such as the elderly, the disabled, pregnant women and infants, a “priority seats” trial scheme was launched in May 2011. Route E34 had been selected for the trial and the priority seats were equipped with a newly-

designed headrest for easy recognition. Through the provision of priority seats, passengers in needs can enjoy a safer and more pleasant bus journey. In view of the positive feedback from the public, LWB have completed fleet-wide adoption of this scheme by the end of 2012.

8.7 Measures to be Taken

8.7.1 The current system of bus captain training will continue with regular review of the training course objectives and contents.

8.7.2 1-day Driving Enhancement Training and Route Training are well in place.

8.7.3 The performance monitoring system will continue to uphold driving and safety standards.

8.7.4 The existing rostering and duty dispatch systems are working well and fully comply with Transport Department's requirements. A newly-sourced scheduling software system adopted in 2013 has enhanced the efforts of the Company in ensuring / monitoring full compliance with the Driver's working Guidelines. These current systems and practices will be maintained, with ongoing fine-tuning in response to staff feedback and enhancement using available technology.

8.7.5 All LWB buses are subject to a stringent maintenance and quality assurance system which keeps the buses in good roadworthy conditions. The existing maintenance and quality assurance system will be continued.

8.7.6 The electronic tachograph is now standard equipment on new buses. The equipment installed satisfies Transport Department's requirements for electronic data recording device issued by VSSD dated 17th October 2003. As at the end of June 2015, all LWB buses were installed with electronic tachographs for monitoring bus captain performance, especially with regard to speeding.

8.7.7 Bus Captains of LWB can access the "Driving Trips in Special Attention Area", a database created to provide structured instructions and tips on best driving practices for all bus captains on LWB's bus routes. One advantage of the database is that the expertise and knowledge of the most experienced bus captains can be effectively transferred to all others.

8.7.8 All LWB buses are equipped with speed limiting devices which limit the speed on level ground to 70 km/hour.

8.7.9 LWB will continue to review and consider the retrofit of safety features as necessary to the vehicles to enhance road and passenger safety.

8.7.10 Alcoholic breathing test had been introduced randomly to bus captains since October 2010 in order to enhance the message of “If you drink, don’t drive”. This practice will continue to enhance bus captains’ safety awareness.

8.7.11 10 buses were installed with CCTV system in the first quarter of 2013. The footage from these CCTV cameras will provide objective evidence for accident investigation and encourage positive behavioural change amongst bus captains.

8.7.12 A “Buddy Driver Programme” was launched in the second quarter of 2013. Experienced bus captains are assigned to accompany new bus captains with the aim of providing the new captains with enhanced “on-the-job” support in their early days of employment with the Company.

8.7.13 The existing systems of Safety Bonus and Safety Awards positively promote safety awareness among bus captains. Safety awareness is emphasized in the staff website, safety messages on waybills, the “Bus Captain of the Year Competition” (organised by KMB/LWB), safety bulletins showing accident numbers and accident rates, safety reminder booklet and visual presentations of wreckages of past accidents displayed at Duty Dispatch Offices.

8.7.14 Education of passengers on the importance of road safety and safety on buses will continue in the form of posters and reminders on buses, and using the Bus Stop Announcement System. This will be supplemented by education videos from time to time.

8.7.15 Cross-company meetings with KMB will be held regularly to monitor accident statistics and propose methods of accident reduction.

8.7.16 LWB will continue to participate in the Road Safety Forum for Franchised Buses organised by Transport Department, and will continue to communicate with Transport Department on road safety issues.

8.8 Target Accident Rate

8.8.1 Transport Department requested the Company to provide a target accident involvement rate in terms of number per million vehicle-km operated as a measure to stimulate continuous improvement to the safety of LWB's bus operations vide its letter ref. TD BR 79/63-1 dated 30 March 2015.

8.8.2 Having reviewed the average accident involvement rates of the past years, we propose to use the 3-year average of 2012 to 2014 actual accident involvement rate of 1.61 per million vehicle-km operated as target for this FPP. As mentioned in paragraph 8.2.10 above, 71% of our bus captains were not blameworthy for the accident cases that occurred in 2013 and 2014.

Annex 8.1

A. Regular Training for New Bus Captains*

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|-----------------------------|--|----------------------------|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for Transport Department Class 17 license test and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident black spot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus familiarization and route training (night drive included).</p> | 18 days full time | Before posting to duty | 2 routes 2 bus types |
| 2. | Special Facilities Training | Bus captains are trained on the operation of Octopus System, Bus Stop Announcement System, Destination Signboard and Fare Display. | Included in Basic Training | Before posting to duty | Not applicable |

* Training courses are conducted by Bus Captain Training School of KMB.

B. Regular Training for Serving Bus Captains*

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|------------------------------|---|-----------------------|--|--|
| 1. | Driving Enhancement Training | Experienced bus captains are trained on areas of defensive driving techniques to avoid traffic accident as well as advanced skills in bus maneuvers. Service enhancement training is also included. | 1 day full time | For experienced bus captains. | 1 route & highway training 1 bus type |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 to 3 days full time | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | 1 route 1 bus type |
| 3. | Route Training | All bus captains will be trained before being posted to a specific route | 1 day full time | As needed | 1 route 1 bus type |
| 4. | Bus Type Training | All bus captains will be trained before being posted to drive a specific bus type | 1 day full time | As needed | 1 route 1 bus type |
| 5. | Safety Enhancement Training | As a corrective measure to prevent similar traffic accident from occurring. It is anticipated that the driving skill and driving attitude of bus captains concerned can be enhanced after receiving the training | 1.5 hours | For bus captains involved in traffic accident resulting in serious injury/fatal; or liable traffic accident resulting in slight injury | Not applicable |

* Training courses are conducted by Bus Captain Training School of KMB.

PRIVATE & CONFIDENTIAL



8. SAFETY REVIEW AND IMPROVEMENT MEASURES IN BUS OPERATION

8.1 Introduction

8.1.1 Safety is always the number one priority in LWB's operation. Safety is enhanced through the strengthening of communications, documentation, training, deployment and performance monitoring as well as improvements in maintenance and bus design. Considerable efforts have also been made to promote traffic safety by passenger education and publicity.

8.1.2 This chapter includes an analysis of the types / causes of accidents for the past two calendar years (2014 and 2015) and the relationship of accident rates with respect to different factors including bus captain age, length of service, length of driving hours before the accident, bus type, etc.

8.1.3 This chapter further discusses the various measures that have been or are being undertaken to promote safety.

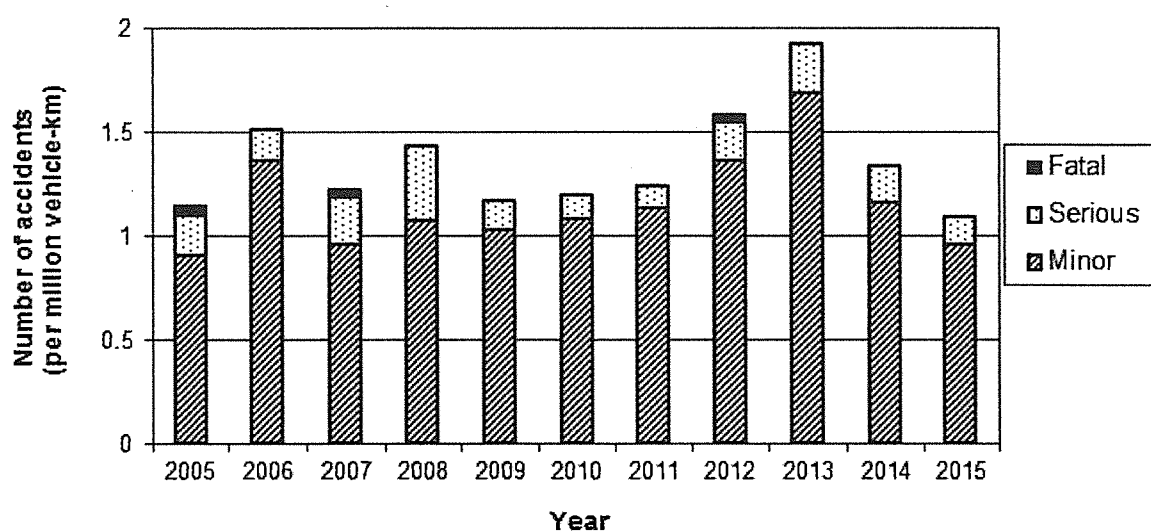
8.2 Analysis of Bus Accidents in the Past Two Calendar Years

8.2.1 The analyses are made for the two-year period 2014 to 2015. The results are presented below.

Trend of Accident Rates

8.2.2 Accidents rates from 2005 to 2015 are shown in Figure 8.1. There was a decrease in accident rate in 2015 compared to 2013 and 2014. The decrease of the figure in 2015 is mainly due to the improvement under the accident nature for passenger loss of balance. Further details are shown in paragraph 8.2.6 to 8.2.9.

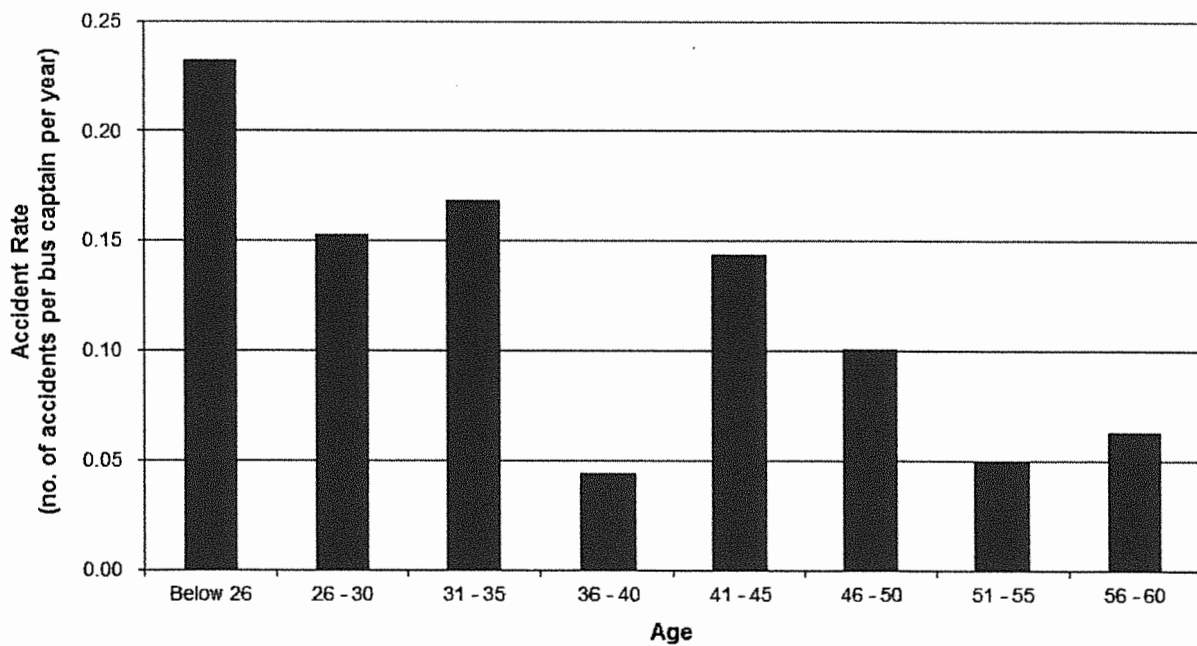
**Figure 8.1 Number of accidents involving personal injuries and deaths
(per million vehicle-km)**



Accident Rate by Bus Captain Age

8.2.3 Results of the analysis of accident rate by bus captain age are shown in Figure 8.2. The results show that younger bus captains have comparatively higher accident rates, but this is mainly due to the fact that these bus captains have relatively less bus driving experience and they are more prone to accidents in their first few months of service. This is also shown in the relationship between accident rates and year of services in Section 8.2.4.

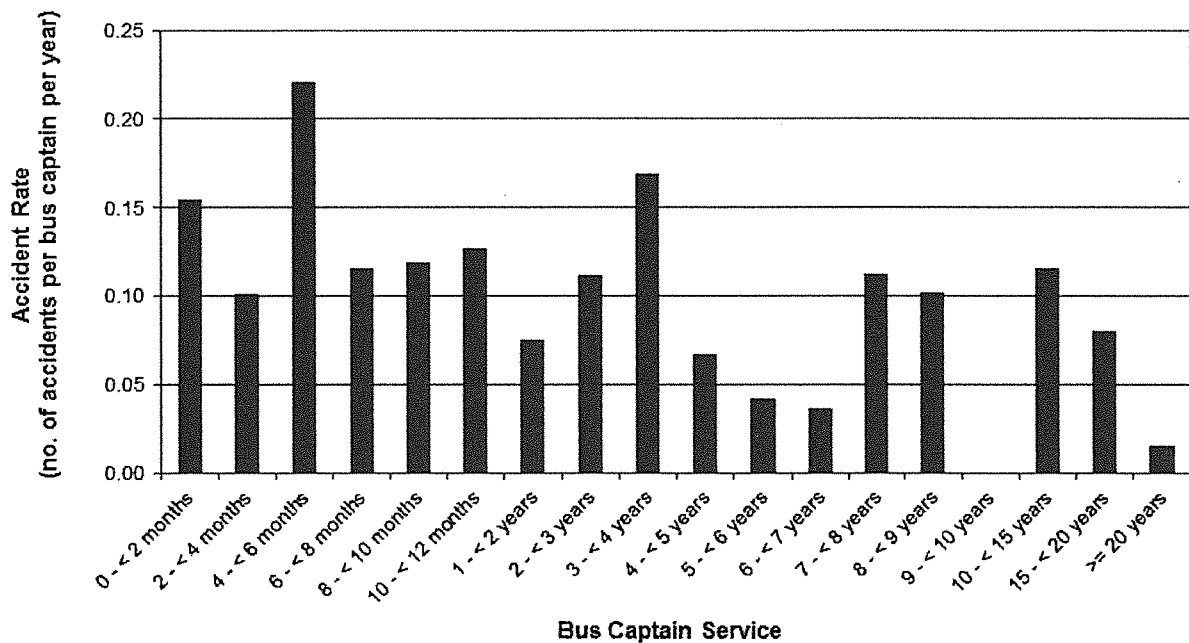
Figure 8.2 Accident Rate by Bus Captain Age



Accident Rate by Year of Service

8.2.4 The results of the analysis on accident rate by experience in terms of years of service in the Company are shown in Figure 8.3. As mentioned above, the likelihood of an accident occurring in the first year immediately following recruitment is relatively higher. The accident rate then falls as experience is accumulated.

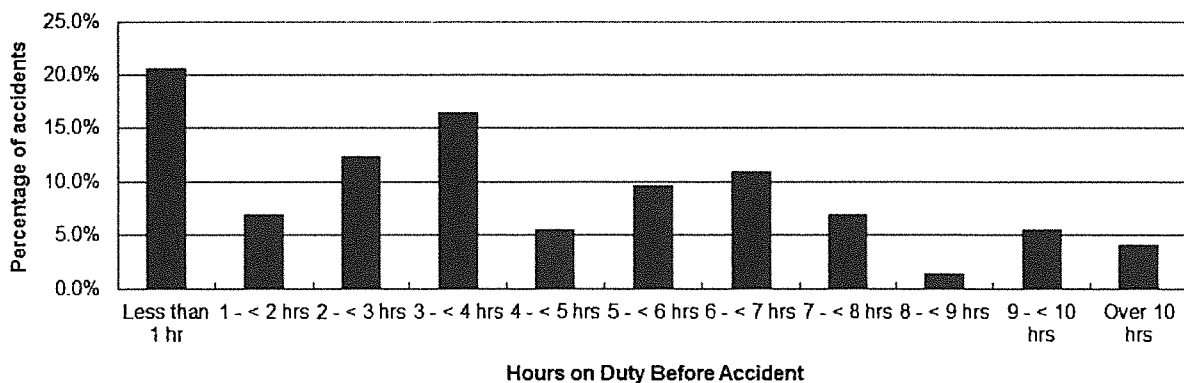
Figure 8.3 Accident Rate by Bus Captain Service in Company



Accident Rate by Hours on Duty Before Accident

8.2.5 The analysis results shown below in Figure 8.4 indicate that there is no correlation between the occurrence of accident and the number of hours on duty before the accident.

Figure 8.4 Hours on Duty Before Accident



Accidents by Nature

8.2.6 The results of the analysis of accident nature breakdown by our classification for 2014 to 2015 are as follows:

Table 8.1 LWB Accidents by Nature

| Nature of Accident | 2014 | 2015 |
|---|-------------|-------------|
| Head On / Head Tail Collision | 6 | 8 |
| Glancing Collision | 0 | 2 |
| Collision with Vehicle - Changing lane | 4 | 5 |
| Collision while Bus / Other Vehicle Reversing | 1 | 0 |
| Collision at Junction | 2 | 4 |
| Collision at Roundabout | 0 | 0 |
| Hitting Stationary Object | 1 | 0 |
| Overturn/Topple | 0 | 0 |
| Injury To Pedestrian | 5 | 2 |
| Injury To Alighting/Boarding Passenger | 1 | 0 |
| Passenger Loss Of Balance | 17 | 12 |
| Injury To Passenger Inside Bus - Other Nature | 1 | 1 |
| Others | 1 | 0 |
| Total: | 39 | 34 |

8.2.7 The results of the analysis of accident nature by percentage are shown in Table 8.2 below.

Table 8.2 LWB Accidents by Nature in percentage

| Nature of Accident | |
|---|--------|
| Head On / Head Tail Collision | 19.2% |
| Glancing Collision | 2.7% |
| Collision with Vehicle - Changing lane | 12.3% |
| Collision while Bus / Other Vehicle Reversing | 1.4% |
| Collision at Junction | 8.2% |
| Collision at Roundabout | 0.0% |
| Hitting Stationary Object | 1.4% |
| Overturn/Topple | 0.0% |
| Injury To Pedestrian | 9.6% |
| Injury To Alighting/Boarding Passenger | 1.4% |
| Passenger Loss Of Balance | 39.7% |
| Injury To Passenger Inside Bus - Other Nature | 2.7% |
| Others | 1.4% |
| Total: | 100.0% |

8.2.8 The above results are expressed in terms of percentage of all accidents during the two years 2014 – 2015. A significant portion of accidents (39.7%) were due to passenger losing balance. More than half of these cases were caused by the bus braking in traffic. The breakdown of the number of non-collision accident involving passenger casualty is provided as follows:

Table 8.3 Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty

| | Number of Non-collision Franchised Bus Accidents Involving Passenger Casualty | Percentage over all accidents involving franchised buses | No. of accidents involving passenger losing balance on stairway (No. of casualty) | No. of accidents involving passenger injured by door (No. of casualty) | No. of accidents involving passenger losing balance elsewhere except on stairway (No. of casualty) |
|------|---|--|---|--|--|
| | (i)+(ii)+(iii) | | (i) | (ii) | (iii) |
| 2015 | 13 | 38.2% | 2 | 0 | 11 |

8.2.9 Accidents with injuries sustained as a result of different kinds of collisions accounted for 43.8% while accidents with injury to pedestrians accounting for 9.6% of all of the accidents in 2014 – 2015.

Accidents by Liability

8.2.10 The breakdown of liability in the two-year period is shown in Table 8.4 below. For 72.6% of the cases, the bus captains were not blameworthy.

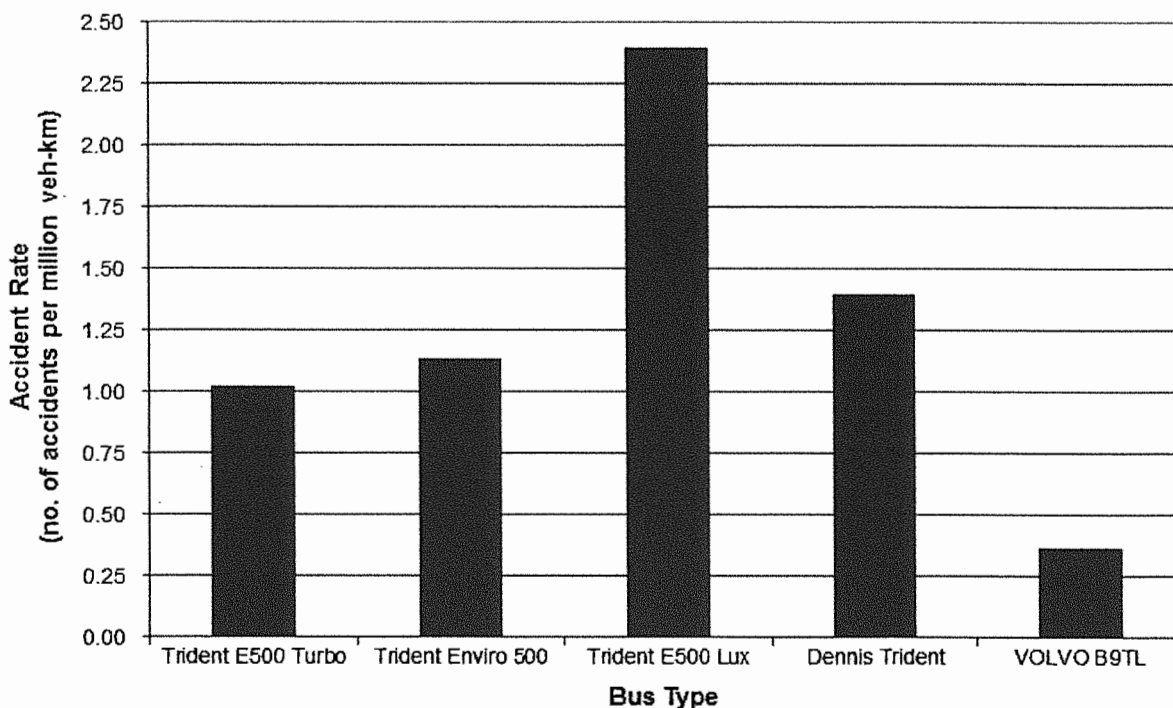
Table 8.4 Accident by Liability of Bus Captain

| Liability of Bus Captain | |
|--------------------------|--------|
| Negligent | 23.3% |
| Innocent | 72.6% |
| Suspended | 4.1% |
| Total: | 100.0% |

Accident by Bus Type

8.2.11 The results of the analysis on accidents by bus type were also analysed and the results are shown in Figure 8.5. The general results are not significant enough to show any direct relationships between accident rate and bus type, and the differences among bus types can be attributable to operating environment (e.g. route), roads, bus captains and other factors.

Figure 8.5 Accident Rate by Bus Type



Duty Deployment with regard to Number of Routes / Buses Operated

8.2.12 The percentage of duties in LWB that involve route or bus hopping is relatively small (16.4% and 43.3% respectively) as at the end of April 2016. Bus captains are deployed to these duties only if they have received the relevant bus route or type training. Our current accident database does not have the information regarding whether the accident occurred during a trip involving route or bus hopping.

Conclusion

8.2.13 The results of the analyses show no systematic relationship between accidents and bus captain age, driving experience in terms of years of service (apart from higher accident potential in the first few months of service) and hours on duty before accident. In about 73% of all the accident cases, our bus captains were not blameworthy for the accidents. Loss of balance of passengers on board the buses and passenger injuries sustained as a result of collisions accounted for a significant portion of the accidents.

8.3 Bus Captain Training and Monitoring

8.3.1 As part of LWB's dedication to providing safe, reliable and comfortable services for our passengers, comprehensive systems of bus captain training and monitoring have been adopted in LWB. Elements of defensive driving, good driving attitude and emergency handling are incorporated in the various training courses. Driving performance monitoring is carried out with systematic checking by driving instructors and followed up with disciplinary actions if required. Moreover, the new 'Drive Green' hardware and software will also help to identify those bus captains who have a higher incidence of 'harsh braking' on a given route than is normal. This information can be used as to ensure that appropriate proactive feedback is given to a bus captain with aim of promoting improved driving behaviour that will in turn serve to prevent/reduce 'loss of balance' cases (as well as accidents in general).

8.3.2 LWB buses have various safety related features to enhance road and passenger safety. Speed monitoring and limiting devices are already installed or are being installed on buses.

- The electronic tachographs are being used to monitor bus captain performance, especially with regard to speeding. The new 'Drive Green' Initiative has not only enhanced environmental management but also bus safety and ride comfort. An electronic tachograph is standard equipment on new buses. At the end of May 2016, a total of 188 buses (i.e. 100% of registered fleet) were installed with electronic tachographs; and,
- Real-time Driving Indicators 駕駛提示器 (see above reference to the Drive Green initiative) are being installed in buses from mid 2013 which can help bus captains to utilize the driving skills learnt in the Eco-safe Driving Training Course. As denoted above, the benefits of such Eco-safe driving to the bus captains are:
 1. Reduce the risk of accidents while driving;
 2. Reduce stress levels and enhanced satisfaction of driving; and,
 3. Increase confidence in vehicle control and driving technique.

8.3.3 Details of training provided to new and serving bus captains are given in Annex 8.1.

8.3.4 Bus captains who are involved in serious traffic accidents will be suspended from driving duty and referred to receive professional counselling service. Remedial driving training will also be arranged for them.

8.3.5 Communication channels with staff and labour unions are well established and these channels facilitate the exchange of views on issues including safety.

8.3.6 As a safety enhancement measure, KMB has appointed a professional counselling service provider to operate a 24-hour Hotline (傾心線) for its staff and their immediate family members, including spouse and children, to raise and discuss any problems or difficulties they may encounter in their daily lives. The purpose is to provide a channel for staff members to relieve pressure and seek help from independent professional counsellors. This service is applicable to bus captains of LWB. The discussions are strictly confidential and contents will not be revealed to the Company. Staff of LWB can also attend a series of seminars on health and disease prevention organized by KMB for its staff members with the aim of raising their awareness of the importance of healthy living.

8.3.7 Alcoholic Breathing Test of Bus Captains is randomly conducted to control the incidence of driving under influence.

8.3.8 The current system of bus captain training will continue to be reviewed regularly.

8.3.9 The performance monitoring system will continue to uphold driving and safety standards.

8.3.10 A new training module, in the form of classroom discussion led by Driving Instructors of KMB's Bus Captain Training School, has been added to the bus captain training programmes from March 2016. Besides the new bus captains, other in-service bus captains have participated in this "Care for Passenger" classroom discussion when they attend refresher training. To make sure that the "Care for Passenger" message can reach existing bus captains in a timely manner, highlights of this training module has been available on the staff web from April 2016 and bus captains are required to log-on the staff web to go through the content.

8.4 Rostering, Scheduling and Duty Dispatch

8.4.1 LWB follows rostering, scheduling and duty dispatch systems having due regard to the Transport Department Guidelines on Driver Working Hours. The systems also ensure that only bus captains who satisfy training requirements are assigned to duties.

8.4.2 Arrangements are made to assign new bus captains to fixed duties in the first few months of appointment to allow for a period of familiarisation and settling in.

8.4.3 In order to help new bus captains adapt to the new working environment, LWB has enhanced and introduced an all-rounded “Buddy Scheme for New Bus Captain” in May 2015. In this enhanced scheme, new bus captains are provided with New Bus Captain Orientation regarding bus operational and mechanical aspects. Experienced bus captains accompany new bus captains with the aim of providing the new bus captains with enhanced ‘on the job’ support in their early days with the Company. A hotline set up by the Bus Captain Training School is available for new bus captains to obtain consultation from driving instructors and mentors respectively.

8.4.4 Ongoing adjustment in journey time, layover, and meal break is made with the solicited input from frontline staff and efforts in this regard have been accelerated in recent years.

8.4.5 New scheduling software was implemented in Year 2013. It enhances the Company’s ability in ensuring/ monitoring compliance with Driver Working Guidelines.

8.5 Bus Maintenance and Safety Features

8.5.1 All LWB buses are subject to a maintenance and quality assurance system which aims to keep the buses in top conditions. Speed monitoring and limiting devices are already installed on LWB buses.

8.5.2 The buses have various safety-related features to enhance road and passenger safety, such as:

- seat belts have been retrofitted at the four seats on the first row on the upper deck;
- double hand rails have been retrofitted to all double deck buses with straight staircases; and
- To help reduce accidents involving elderly passengers due to ‘losing balance on board’, the new bus specifications have included continuous railing, extending from the entrance into the saloon (as far as is practicable).

8.5.3 All LWB buses are subject to a stringent maintenance and quality assurance system which keeps the buses in good roadworthy conditions. The existing maintenance and quality assurance system will be continued.

8.5.4 Speed limiting devices have been a standard feature of all LWB buses.

8.5.5 LWB will continue to review and consider the retrofit of safety features as necessary to the vehicles to enhance road and passenger safety.

8.5.6 Interlock system is deployed to ensure exit door is closed before vehicle can move, or no door can be opened when vehicle is in motion.

8.5.7 According to the bus manufacturers, the current bus models available do not have the required structural integrity to have all seats or seats in upper deck seatbelt-enabled. Currently, all buses in LWB already have seatbelts fitted at the “vulnerable” positions, i.e. the exposed seats. It would be a complete bus body structural re-design of the vehicle to have all seats with seatbelts that are currently non-existent in the market. Not only do the standard seats need to be changed to ones with stronger anchorage points and wider pedestal legs, but the overall bus construction would need extensive localized reinforcement along the floor / inter-floor structure that inevitably render the vehicle unnecessarily heavy, reduced passenger carrying capacity and less fuel efficient for public bus application.

8.6 Promotion of Passenger Safety

8.6.1 Safety awareness among bus captains is promoted by means of in-house videos, safety messages on waybills, internal posters, tool-box talk, and safety tips provided at staff website.

8.6.2 LWB produces its “Bus Captain Safe Driving Handbook” which is posted at staff website for all bus captains currently. The handbook includes driving regulations and points to note about safe driving, covering every aspect of a bus captain’s daily work. It is aimed at assisting bus captains in establishing a proper safe driving attitude and encouraging them to take all practical steps aimed at achieving safe driving.

8.6.3 Various projects to educate the public and passengers on the safe use of bus services have been undertaken. These include education video, on-board stickers, company Facebook and KMB/LWB mobile phone Apps to remind passengers from taking safety precautions.

8.6.4 Education of passengers on the importance of road safety and safety on buses by using the Bus Stop Announcement System (“BSAS”) will continue. The safety messages were broadcast in Cantonese, English and Putonghua to encourage passengers to hold the handrail and to give their seats to those in need.

8.6.5 To further enhance passengers’ safety awareness when they ride on the buses, a new musical safety video called “Hold the Handrails – Safety First” was launched in November 2014. It was broadcast in Cantonese on the Multi-media On-board (“MMOB”) system in LWB buses. Passengers were encouraged to hold the handrails to prevent loss of balance.

8.6.6 Company Facebook and KMB/LWB mobile phone Apps have been used to increase passenger awareness to “Hold the Handrail”, and to be available from March 2016.

8.6.7 A sticker “請緊握扶手” has been posted at a prominent place near the Octopus machine from March 2016 to catch the attention of boarding passengers.

8.6.8 During the journey, the “請緊握扶手” message has been broadcast via the Bus Stop Announcement System before approaching appropriate en-route stops (subject to journey distance between stops) on all LWB routes. Re-arrangement of the sound track has started in March 2016.

8.6.9 A sticker “請緊握扶手” has been posted at the exit door frame from March 2016 to catch the attention of alighting passengers.

8.6.10 Continuous monitoring of accident data and review of procedures and systems to enhance safety are being undertaken with internal cross-company meetings with KMB and participation in the Road Safety Forum for Franchised Buses organised by Transport Department.

8.6.11 To demonstrate commitment on safety, a new Safety Policy was established and approved in January 2011. Briefings to all relevant staff on new Safety Policy were completed in February 2011. Frontline management staff will continue to conduct briefings on safety and share the causes of accidents and driving tips to accident blackspots to bus captains periodically. To increase bus captains’ awareness on the briefings, Long Win operation management staff will join the safety briefings periodically and collect opinions/ feedbacks from bus captains related to safety and accident prevention.

8.6.12 LWB participated in a “priority seats” trial scheme in May 2011 by providing specially-designed priority seats with distinct colour headrests and images of the elderly, pregnant woman, baby and people with disabilities for easy recognition. The trial proved to be successful in promoting a caring culture and raising the safety awareness of the bus captains. Through the provision of priority seats, passengers in needs can enjoy a safer and more pleasant bus journey. In view of the positive feedback from the public, LWB have completed fleet-wide adoption of this scheme by the end of 2012.

8.7 Measures to be Taken

8.7.1 As part of its efforts to promote a caring culture, LWB broadcasts on all LWB buses fitted with MMOV an educational video, which encourages passengers to hold the handrail and to give their seat to those in need.

8.7.2 To promote operational safety and share the experience of safe driving, representatives of the Police were invited to conduct a series of tailor-made Road Safety Lectures.

8.7.3 Bus Stop Assistants have been assisting persons in need to find a seat and helping wheelchair users while boarding/alighting starting from May 2016.

8.7.4 The existing rostering and duty dispatch systems are working well and fully comply with Transport Department's requirements. A newly-sourced scheduling software system adopted in 2013 has enhanced the efforts of the Company in ensuring / monitoring full compliance with the Driver's working Guidelines. These current systems and practices will be maintained, with ongoing fine-tuning in response to staff feedback and enhancement using available technology.

8.7.5 All LWB buses are subject to a stringent maintenance and quality assurance system which keeps the buses in good roadworthy conditions. The existing maintenance and quality assurance system will be continued.

8.7.6 The electronic tachograph is now standard equipment on new buses. The equipment installed satisfies Transport Department's requirements for electronic data recording device issued by VSSD dated 17th October 2003. As at the end of June 2015, all LWB buses were installed with electronic tachographs for monitoring bus captain performance, especially with regard to speeding.

8.7.7 Bus Captains of LWB can access the "Driving Trips in Special Attention Area", a database created to provide structured instructions and tips on best driving practices for all bus captains driving on particular routes, so that expertise and knowledge of the most experienced bus captains can be effectively transferred to all others. To promote bus captains' awareness of safe driving, all relevant bus routes are listed in the database, supplemented by photos and layout drawings for easy reference.

8.7.8 All LWB buses are equipped with speed limiting devices which limit the speed on level ground to 70 km/hour.

8.7.9 LWB will continue to review and consider the retrofit of safety features as necessary to the vehicles to enhance road and passenger safety.

8.7.10 Alcoholic breathing test had been introduced randomly to bus captains since October 2010 in order to enhance the message of “If you drink, don’t drive”. This practice will continue to enhance bus captains’ safety awareness.

8.7.11 10 buses were installed with CCTV system in the first quarter of 2013. The footage from these CCTV cameras will provide objective evidence for accident investigation and encourage positive behavioural change amongst bus captains.

8.7.12 A “Buddy Driver Programme” was launched in the second quarter of 2013. Experienced bus captains are assigned to accompany new bus captains with the aim of providing the new captains with enhanced “on-the-job” support in their early days of employment with the Company.

8.7.13 The existing systems of Safety Bonus and Safety Awards will continue to promote safety awareness among bus captains. Safety awareness is emphasized in the staff website, safety messages on waybills, safety bulletins showing accident numbers and accident rates, safety reminder booklet and visual presentations of wreckages of past accidents displayed at Duty Dispatch Offices. In addition to the existing individual safe driving award, route-based awards on bus safety will be continued to encourage frontline staff to strive for continual improvement in bus safety performance.

8.7.14 Education of passengers on the importance of road safety and safety on buses will continue in the form of posters and reminders on buses, and using the Bus Stop Announcement System. This will be supplemented by education videos from time to time.

8.7.15 Cross-company meetings with KMB will be held regularly to monitor accident statistics and propose methods of accident reduction. The importance of systematic ‘feedback loops’ in safety management will be emphasised to ensure that lessons are learned from any incidents that do occur.

8.7.16 LWB will continue to participate in the Road Safety Forum for Franchised Buses organised by Transport Department, and will continue to communicate with Transport Department on road safety issues.

8.7.17 On-street monitoring and promotion by outdoor staff will be conducted in strategic locations on a regular basis to promote safety messages to passengers.

8.8 Target Accident Rate

8.8.1 Transport Department requested the Company to provide a target accident involvement rate in terms of number per million vehicle-km operated as a measure to stimulate continuous improvement to the safety of LWB's bus operations vide its letter ref. TD BR 79/63-1 dated 15 April 2016.

8.8.2 Having reviewed the average accident involvement rates of the past years, we propose to use the 3-year average of 2013 to 2015 actual accident involvement rate of 1.43 (defined as the number of buses involved in accidents per million km operated) as target for the purpose of this Five-Year Plan period. As mentioned in paragraph 8.2.10 above, 72.6% of our bus captains were not blameworthy for the accident cases that occurred in 2014 and 2015.

Annex 8.1

A. Regular Training for New Bus Captains*

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|-----------------------------|--|----------------------------|------------------------|--|
| 1. | Basic Training | <p>To teach bus driving technique to prepare for Transport Department Class 17 license test and to equip trainees with the skills required to carry out the duties of a bus captain.</p> <p>Classroom lectures on company rules, passenger safety, accident black spot analysis, emergency handling procedure and concept of quality service.</p> <p>On road training on defensive driving technique, bus familiarization and route training (night drive included).</p> | 18 days full time | Before posting to duty | 2 routes 3-4 bus types |
| 2. | Special Facilities Training | Bus captains are trained on the operation of Octopus System, Bus Stop Announcement System, Destination Signboard and Fare Display. | Included in Basic Training | Before posting to duty | Not applicable |

* Training courses are conducted by Bus Captain Training School of KMB.

B. Regular Training for Serving Bus Captains*

| | <u>Training Type</u> | <u>Nature</u> | <u>Duration</u> | <u>Frequency</u> | <u>No. of route / bus type trained</u> |
|----|------------------------------|---|-----------------------|---|--|
| 1. | Driving Enhancement Training | Experienced bus captains are trained on areas of defensive driving techniques to avoid traffic accident as well as advanced skills in bus maneuvers. Service enhancement training is also included. | 1 day full time | For experienced bus captains. | 1 route & highway training 1 bus type |
| 2. | Remedial Training | Aimed at bus captains who are found to be inadequate in certain driving areas or service level. The training will specifically tackle these areas until the bus captain reaches an acceptable level before he/she is released to perform normal duties. | 1 to 3 days full time | For bus captains who are found to have driving irregularities or away from driving duties for a period of time. | 1 route 1 bus type |
| 3. | Route Training | All bus captains will be trained before being posted to a specific route | 1 day full time | As needed | 1 route 1 bus type |
| 4. | Bus Type Training | All bus captains will be trained before being posted to drive a specific bus type | 1 day full time | As needed | 1 route 1 bus type |

* Training courses are conducted by Bus Captain Training School of KMB.

Training protocols are subject to ongoing review, albeit that the aim will be to continue to do all that is reasonably practicable to ensure the safety and comfort of passengers, staff and other road users at all times

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:17:44 | 5.7 | 8.7 | 22.377803 | 114.1746678 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:17:45 | 4.8 | 13.6 | 22.377803 | 114.1746677 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:19:11 | 4.1 | 13.2 | 22.37680583 | 114.174979 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:19:17 | 4.5 | 21.8 | 22.3766435 | 114.1750012 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:19:18 | 4.1 | 26 | 22.37661967 | 114.1749712 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:19:53 | 4.3 | 22.8 | 22.37733367 | 114.1733362 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:20:36 | 4.4 | 20.4 | 22.3759835 | 114.1705343 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:21:39 | 4 | 22 | 22.37630667 | 114.1710992 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:22:10 | 5.4 | 17.8 | 22.3766905 | 114.1718432 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:22:11 | 5.1 | 23 | 22.376695 | 114.1718637 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:22:48 | 6.4 | 15 | 22.37734733 | 114.1736298 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:22:49 | 5.6 | 20.6 | 22.37735517 | 114.1736357 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:22:50 | 4.1 | 24.7 | 22.37736767 | 114.1736558 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:23:39 | 5.8 | 13.2 | 22.37604117 | 114.175448 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:23:40 | 5.7 | 19 | 22.37603267 | 114.175452 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:25:10 | 6.5 | 15.5 | 22.37437083 | 114.1765147 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:25:11 | 5.6 | 21.2 | 22.3743625 | 114.176521 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:26:14 | 4.4 | 18.1 | 22.37381667 | 114.176979 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:26:49 | 5 | 19.6 | 22.37178983 | 114.178543 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:29:03 | 5.3 | 8.9 | 22.36793933 | 114.1746325 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:29:04 | 5.5 | 14.5 | 22.3679385 | 114.1746322 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:29:05 | 6 | 20.5 | 22.367931 | 114.174627 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:29:58 | 5.1 | 13 | 22.36532717 | 114.1730208 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:29:59 | 5.8 | 18.8 | 22.36532033 | 114.1730135 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:30:37 | 4.9 | 12.6 | 22.36416267 | 114.1719777 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:30:38 | 5.6 | 18.2 | 22.36415467 | 114.1719693 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:32:01 | 4.1 | 13.1 | 22.36355633 | 114.17138 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:32:08 | 4.4 | 23.4 | 22.363386 | 114.1713332 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:33:09 | 5 | 11.5 | 22.36388267 | 114.1737213 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:33:10 | 6.7 | 18.2 | 22.3638865 | 114.1737273 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:33:11 | 4.6 | 22.9 | 22.36389817 | 114.1737423 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:34:14 | 4.6 | 20.2 | 22.36543783 | 114.1752173 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:36:55 | 5.8 | 13.6 | 22.36699867 | 114.1763297 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:36:56 | 4.4 | 18.1 | 22.36700667 | 114.1763267 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:37:49 | 5.3 | 14.7 | 22.36861517 | 114.1783192 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:37:50 | 4.3 | 19.1 | 22.36862217 | 114.1783298 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:39:02 | 5.2 | 16.1 | 22.36902967 | 114.1792162 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:39:03 | 4.5 | 20.7 | 22.3690345 | 114.1792335 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:39:21 | 5.3 | 12.1 | 22.36931617 | 114.1800338 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:39:22 | 4.8 | 17 | 22.369319 | 114.1800408 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:39:23 | 4.2 | 21.2 | 22.369327 | 114.1800582 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:46:41 | 4.9 | 12 | 22.341815 | 114.191809 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:46:42 | 5 | 17 | 22.34181317 | 114.1918163 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:47:45 | 4.1 | 21.5 | 22.34178767 | 114.1957627 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:52:54 | 5.1 | 13 | 22.32534083 | 114.2143253 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:52:55 | 5.8 | 18.9 | 22.32533183 | 114.2143227 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:52:56 | 4 | 22.9 | 22.325311 | 114.2143133 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:54:54 | 5 | 12.2 | 22.3178565 | 114.2151197 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:54:55 | 5.1 | 17.4 | 22.31785 | 114.2151223 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:54:56 | 4.5 | 21.9 | 22.31783267 | 114.2151298 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 12:58:38 | 4.1 | 8.7 | 22.31598983 | 114.2168833 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 13:00:18 | 4.6 | 9.2 | 22.31584933 | 114.2173922 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 13:01:52 | 4.7 | 10.5 | 22.31558333 | 114.2181342 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 13:05:14 | 4.5 | 10.2 | 22.3142795 | 114.2207563 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 13:07:17 | 5.7 | 13.4 | 22.31392383 | 114.222304 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 13:08:37 | 5.1 | 10.1 | 22.313314 | 114.2243957 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 13:08:38 | 4.6 | 14.8 | 22.31331433 | 114.2243922 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 13:08:52 | 5 | 21.4 | 22.313129 | 114.224712 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 13:10:52 | 5.6 | 14.4 | 22.30987633 | 114.2242202 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 13:10:53 | 5.6 | 20.1 | 22.3098695 | 114.2242153 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 12:13:42 | 2018-07-24 12:16:00 | 2018-07-24 13:10:54 | 4.8 | 25 | 22.3098575 | 114.2241965 |
| 69496 | | STD | NULL | NULL | UX8921 | NULL | NULL | 2018-07-24 13:19:56 | NULL | 2018-07-24 13:21:57 | 4.4 | 10.1 | 22.30793067 | 114.2218667 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:22:04 | 4.3 | 21.4 | 22.30806967 | 114.2219397 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:22:37 | 5.6 | 15.9 | 22.30855533 | 114.2220225 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:22:38 | 5.3 | 21.2 | 22.30856567 | 114.2220293 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:25:35 | 4.2 | 23.9 | 22.3103455 | 114.2292113 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:28:37 | 4.8 | 10.5 | 22.31412017 | 114.2212292 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:28:38 | 5.4 | 16 | 22.31413233 | 114.2212333 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:28:39 | 5.3 | 21.4 | 22.31413767 | 114.2212202 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:29:36 | 4 | 25.3 | 22.31601767 | 114.2165043 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:29:52 | 4 | 23.7 | 22.31644767 | 114.215875 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:30:55 | 4.4 | 8.2 | 22.31991283 | 114.2145717 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:30:56 | 4.8 | 13 | 22.31991383 | 114.2145697 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:31:14 | 5.7 | 18.1 | 22.32019283 | 114.21453 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:31:15 | 4.6 | 22.7 | 22.32021233 | 114.2145302 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:31:42 | 5 | 19.9 | 22.32188817 | 114.2143393 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:32:10 | 5.2 | 15.2 | 22.3221125 | 114.2143293 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:32:11 | 5.1 | 20.4 | 22.32212883 | 114.2143298 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:33:10 | 5.3 | 15.7 | 22.325605 | 114.2140035 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:33:11 | 5 | 20.7 | 22.3256205 | 114.214004 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:35:37 | 5.8 | 11.7 | 22.33356033 | 114.2077258 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:35:38 | 5.1 | 16.8 | 22.33356383 | 114.20773 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:38:18 | 4.5 | 7.6 | 22.33915833 | 114.2024647 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:38:19 | 4.7 | 12.4 | 22.33916017 | 114.2024635 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:38:20 | 5.9 | 18.3 | 22.3391675 | 114.202456 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:39:49 | 5.1 | 12.3 | 22.34158983 | 114.194287 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:39:50 | 5.4 | 17.8 | 22.3415915 | 114.1942787 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:39:51 | 4.1 | 22 | 22.34159283 | 114.1942587 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:41:17 | 4 | 21 | 22.342385 | 114.1882512 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:47:03 | 6.2 | 13.3 | 22.36571667 | 114.1806663 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:47:04 | 5.7 | 19.1 | 22.36572133 | 114.1806647 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:47:05 | 4.1 | 23.3 | 22.36574017 | 114.1806595 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:48:42 | 4.4 | 21.5 | 22.3690105 | 114.179412 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:49:30 | 4.8 | 12.7 | 22.368466 | 114.1780795 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:49:31 | 5.4 | 18.2 | 22.368462 | 114.17807 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:49:32 | 4.6 | 22.8 | 22.368454 | 114.1780493 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:51:19 | 5 | 10.6 | 22.36742033 | 114.176365 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:51:20 | 4.2 | 14.8 | 22.36741833 | 114.1763618 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:52:28 | 4.7 | 20.1 | 22.3654345 | 114.1753513 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:53:32 | 5.6 | 14.7 | 22.36303183 | 114.172747 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:54:00 | 5.7 | 19 | 22.3629185 | 114.1725685 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:54:01 | 4.7 | 23.7 | 22.362916 | 114.1725452 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:55:23 | 5.7 | 12 | 22.363379 | 114.171428 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:55:24 | 5.7 | 17.8 | 22.36337583 | 114.1713852 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:56:12 | 4.8 | 9.9 | 22.36556933 | 114.172989 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:56:14 | 5.5 | 21.4 | 22.36558467 | 114.1730042 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:57:07 | 6.2 | 14.1 | 22.36883617 | 114.175052 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:57:08 | 6.1 | 20.2 | 22.36884267 | 114.1750568 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:57:09 | 4.1 | 24.3 | 22.36885783 | 114.175072 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:57:54 | 6.3 | 15.1 | 22.37143783 | 114.1783718 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:57:55 | 5.9 | 21.1 | 22.37144517 | 114.1783755 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:58:23 | 5 | 10.5 | 22.37266717 | 114.1776725 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:58:24 | 5.7 | 16.3 | 22.37267133 | 114.177668 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 13:58:25 | 5.1 | 21.5 | 22.37268367 | 114.1776583 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:00:08 | 5.7 | 13 | 22.37397 | 114.1767588 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:00:09 | 5.5 | 18.6 | 22.373985 | 114.1767478 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:01:11 | 4.5 | 9.6 | 22.37549267 | 114.1775907 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:01:12 | 5.6 | 15.2 | 22.37549617 | 114.177587 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:01:48 | 4.6 | 15.8 | 22.37606333 | 114.177135 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:01:49 | 4.3 | 20.1 | 22.3760765 | 114.1771213 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:03:10 | 5.4 | 13.3 | 22.3758135 | 114.1760283 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:03:11 | 5.7 | 19.1 | 22.37581183 | 114.1760235 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:04:14 | 6.1 | 13.2 | 22.37722967 | 114.1740435 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:04:15 | 5 | 18.3 | 22.37723033 | 114.1740382 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:04:53 | 5.2 | 18 | 22.3773015 | 114.1730672 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:04:54 | 4.1 | 22.2 | 22.377299 | 114.173041 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:06:25 | 4.7 | 10.1 | 22.37656083 | 114.1709245 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 13:19:56 | 2018-07-24 13:22:00 | 2018-07-24 14:06:29 | 4.7 | 24.6 | 22.376644 | 114.1709515 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:44:46 | 4.8 | 12.1 | 22.37777333 | 114.1747853 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:44:47 | 4 | 16.1 | 22.3777775 | 114.1747848 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:46:12 | 5.8 | 11 | 22.37687517 | 114.1750848 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:47:25 | 4.8 | 18.6 | 22.3762395 | 114.1704478 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:48:48 | 4.9 | 22 | 22.37654267 | 114.1710655 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:49:14 | 5.7 | 17.1 | 22.37683133 | 114.1718067 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:49:15 | 4.9 | 22.1 | 22.37683533 | 114.1718232 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:49:47 | 6.4 | 17.7 | 22.37743833 | 114.1736043 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:49:48 | 4.6 | 22.4 | 22.37744333 | 114.1736188 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:50:31 | 6.3 | 10.6 | 22.37585433 | 114.1756092 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:50:32 | 6.6 | 17.2 | 22.37585417 | 114.1756093 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:53:48 | 4.7 | 7.5 | 22.36863967 | 114.175135 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:53:49 | 5.2 | 12.8 | 22.3686395 | 114.1751348 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:53:50 | 6 | 18.8 | 22.36863367 | 114.175128 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:53:51 | 4.4 | 23.3 | 22.3686195 | 114.1751117 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:54:54 | 5.5 | 10.9 | 22.36817667 | 114.1747132 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:54:55 | 4.2 | 15.2 | 22.36817433 | 114.1747117 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:55:50 | 4.8 | 10.7 | 22.365314 | 114.1729657 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:55:51 | 6 | 16.8 | 22.36531017 | 114.1729623 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:55:52 | 4.7 | 21.5 | 22.3653 | 114.1729475 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:56:26 | 5.7 | 17.1 | 22.36416567 | 114.1719157 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:56:27 | 4.2 | 21.4 | 22.36415367 | 114.1719015 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:58:14 | 5 | 13.6 | 22.36383783 | 114.1737812 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:58:15 | 6.7 | 20.4 | 22.363846 | 114.1737885 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:59:00 | 5.5 | 14.7 | 22.36537917 | 114.1751872 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:59:01 | 5.7 | 20.4 | 22.3653955 | 114.1752073 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 14:59:02 | 4.3 | 24.8 | 22.36541583 | 114.1752327 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:00:32 | 5.8 | 14.1 | 22.36631283 | 114.1763717 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:01:44 | 6.1 | 17.2 | 22.367035 | 114.1762923 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:01:45 | 4.4 | 21.7 | 22.36704883 | 114.1762863 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:03:08 | 6.5 | 11.3 | 22.36868517 | 114.1783398 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:03:09 | 6.3 | 17.7 | 22.36868667 | 114.1783432 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:03:10 | 4.4 | 22.1 | 22.36869233 | 114.1783563 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:04:10 | 5 | 15.5 | 22.36906567 | 114.1791988 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:04:11 | 4 | 19.6 | 22.36906467 | 114.1792167 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:04:12 | 4.1 | 23.8 | 22.369066 | 114.1792463 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:04:44 | 5.6 | 13.8 | 22.36929933 | 114.1798877 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:04:45 | 4.9 | 18.7 | 22.3693025 | 114.179895 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:06:17 | 4.6 | 16.7 | 22.36470517 | 114.181249 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:11:06 | 6 | 12.2 | 22.34265483 | 114.186389 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:11:07 | 6.6 | 18.8 | 22.34265533 | 114.1863923 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:11:08 | 5.2 | 24 | 22.3426515 | 114.186411 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:11:09 | 4.3 | 28.4 | 22.34264267 | 114.1864457 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:11:59 | 4.3 | 17.8 | 22.3421865 | 114.1900465 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:12:00 | 4.3 | 22.2 | 22.34217167 | 114.1900667 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:12:41 | 5.1 | 12.7 | 22.341755 | 114.1918275 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:12:42 | 5.6 | 18.4 | 22.34175567 | 114.1918377 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:13:53 | 5.1 | 12 | 22.34180233 | 114.1957237 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:13:54 | 4.9 | 16.9 | 22.34180183 | 114.1957315 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:13:55 | 4.5 | 21.5 | 22.34179533 | 114.1957513 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:15:19 | 5.4 | 14.7 | 22.33954383 | 114.202788 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:15:20 | 4.8 | 19.5 | 22.339534 | 114.202799 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:15:44 | 5.6 | 12.7 | 22.3386585 | 114.2038372 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:15:45 | 4.9 | 17.7 | 22.3386525 | 114.2038438 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:15:46 | 4.9 | 22.6 | 22.33863967 | 114.2038595 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:16:42 | 4.8 | 25.6 | 22.33673733 | 114.2070667 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:19:12 | 4.6 | 10.5 | 22.32532883 | 114.214335 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:19:14 | 4.5 | 21.2 | 22.325309 | 114.2143002 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:20:16 | 5.4 | 17.5 | 22.3211555 | 114.2146635 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:20:17 | 4.8 | 22.3 | 22.32113633 | 114.2146652 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:21:07 | 5.1 | 12.3 | 22.31744683 | 114.215283 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:21:08 | 6 | 18.4 | 22.31744083 | 114.2152885 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:21:09 | 4.3 | 22.7 | 22.3174235 | 114.2152975 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:21:51 | 5.6 | 14 | 22.31558567 | 114.2182082 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:21:52 | 4.2 | 18.3 | 22.31558317 | 114.2182183 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:22:45 | 4.6 | 16.9 | 22.31437267 | 114.221105 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:23:14 | 5.1 | 18.6 | 22.31422733 | 114.2215907 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:23:56 | 5.2 | 15.2 | 22.31399333 | 114.2224385 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:25:39 | 5.4 | 11.5 | 22.31311467 | 114.224833 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:25:40 | 6.3 | 17.9 | 22.31311367 | 114.2248338 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:26:15 | 6.7 | 15.6 | 22.31258033 | 114.2261133 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:26:16 | 5.1 | 20.7 | 22.312579 | 114.22612 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:27:06 | 5.8 | 8.5 | 22.31104383 | 114.2253592 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:27:07 | 5.8 | 14.3 | 22.31104383 | 114.2253592 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:27:08 | 5.1 | 19.5 | 22.31103917 | 114.225355 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:28:14 | 5.2 | 19.9 | 22.30976 | 114.2238552 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:28:15 | 4.5 | 24.4 | 22.30974617 | 114.223831 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:29:30 | 5.1 | 10.5 | 22.30708833 | 114.2219083 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:29:31 | 5.3 | 15.9 | 22.30709167 | 114.2219055 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | MEILAM | 2018-07-24 14:40:41 | 2018-07-24 14:44:00 | 2018-07-24 15:29:32 | 5.3 | 21.2 | 22.30710383 | 114.2218952 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 15:56:05 | 4.9 | 23.1 | 22.30806733 | 114.2219285 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 15:56:27 | 5.6 | 10.7 | 22.30854117 | 114.2220313 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 15:56:28 | 6 | 16.8 | 22.308541 | 114.2220292 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 15:56:29 | 5.3 | 22.1 | 22.3085515 | 114.2220375 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 15:58:07 | 5.5 | 14.6 | 22.30797867 | 114.2255363 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 15:58:08 | 5.5 | 20.2 | 22.30798583 | 114.2255478 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 15:59:49 | 5.6 | 9.1 | 22.30902183 | 114.227081 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 15:59:50 | 5.2 | 14.3 | 22.30902183 | 114.227081 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:00:37 | 4.5 | 10 | 22.308985 | 114.228425 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:00:38 | 5.6 | 15.7 | 22.30899317 | 114.2284268 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:00:39 | 5.5 | 21.2 | 22.30900633 | 114.2284355 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:01:11 | 4.5 | 23.1 | 22.310343 | 114.2292035 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:03:12 | 4.9 | 9.5 | 22.313047 | 114.2239903 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:03:14 | 5.4 | 20.5 | 22.3130545 | 114.2239773 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:03:15 | 4.2 | 24.8 | 22.31306817 | 114.2239555 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:03:59 | 4.8 | 11.5 | 22.3141215 | 114.2213172 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:04:00 | 6 | 17.5 | 22.3141285 | 114.2213152 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:04:01 | 4.5 | 22 | 22.31414233 | 114.2213018 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:05:07 | 5 | 10.8 | 22.31511017 | 114.2188155 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:05:08 | 4.7 | 15.6 | 22.31511183 | 114.2188108 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:05:09 | 4.9 | 20.6 | 22.3151175 | 114.2187948 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:05:55 | 5.1 | 12.4 | 22.31648817 | 114.2157953 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:05:56 | 5.8 | 18.3 | 22.3164955 | 114.2157877 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:05:57 | 4.5 | 22.9 | 22.31650967 | 114.2157713 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:06:44 | 5.4 | 14.8 | 22.320164 | 114.2144947 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:06:45 | 5.7 | 20.6 | 22.320177 | 114.214496 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:07:41 | 4.2 | 11.1 | 22.322127 | 114.2142952 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:07:42 | 5.8 | 17 | 22.3221345 | 114.2142957 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:08:30 | 5.4 | 13.2 | 22.32560533 | 114.2139643 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:08:31 | 6 | 19.3 | 22.32561583 | 114.213964 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:09:51 | 5.4 | 16.9 | 22.32862283 | 114.2121368 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:09:52 | 4.6 | 21.6 | 22.32863133 | 114.2121207 |
| 69496 | | STD | 2018-07-24 | 80 | UX8921 | 80 | KT.FRY | 2018-07-24 15:53:33 | 2018-07-24 15:56:00 | 2018-07-24 16:10:10 | 4.9 | 20.4 | 22.3288375 | 114.2117965 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:21:03 | 4.5 | 7.2 | 22.37781167 | 114.1748807 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:25:55 | 4.5 | 14.4 | 22.37683467 | 114.1717615 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:25:57 | 4.5 | 22.9 | 22.37684133 | 114.1718532 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:26:45 | 4.5 | 8.1 | 22.37743467 | 114.1735048 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:29:13 | 4.5 | 10.3 | 22.37433583 | 114.1765442 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:30:37 | 4.3 | 18.8 | 22.37300067 | 114.1775747 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:33:08 | 4.5 | 8.1 | 22.3690825 | 114.1755478 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:33:09 | 4.5 | 12.6 | 22.3690675 | 114.1755317 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:33:10 | 4.5 | 17.1 | 22.3690445 | 114.1755075 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:33:36 | 5 | 15.3 | 22.36857617 | 114.175113 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:35:20 | 4.5 | 15.3 | 22.365287 | 114.1729648 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:36:42 | 4.5 | 16.6 | 22.363398 | 114.1713648 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:38:52 | 4.5 | 15.7 | 22.36543033 | 114.1752602 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:39:48 | 4.5 | 11.2 | 22.36622767 | 114.1761848 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:39:49 | 4.5 | 15.7 | 22.3662385 | 114.1762128 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:41:18 | 4.5 | 12.1 | 22.36698383 | 114.1763033 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:42:06 | 5.3 | 14.4 | 22.36874117 | 114.1784855 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:42:40 | 4.5 | 14.8 | 22.369056 | 114.1792247 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:49:42 | 4.8 | 7.6 | 22.3426625 | 114.1863972 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:49:43 | 5 | 12.6 | 22.34265033 | 114.1864185 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:49:45 | 4.8 | 22.4 | 22.34263483 | 114.1865003 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:49:46 | 5.8 | 28.3 | 22.34262067 | 114.1865608 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:49:47 | 4.9 | 33.2 | 22.34261183 | 114.1866388 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:50:54 | 4.5 | 16.6 | 22.34180167 | 114.1918883 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 18:51:43 | 5 | 14.4 | 22.341794 | 114.1954233 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 19:02:48 | 4.4 | 9.9 | 22.321158 | 114.2146885 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 19:02:49 | 4.5 | 14.4 | 22.32113317 | 114.2146912 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 19:12:29 | 4.8 | 13 | 22.3129195 | 114.2248893 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 19:16:46 | 4.5 | 7.2 | 22.3071025 | 114.2219245 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 19:16:47 | 4.5 | 11.7 | 22.30711733 | 114.2219128 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | MEILAM | 2018-07-24 18:17:51 | 2018-07-24 18:21:00 | 2018-07-24 19:16:48 | 4.5 | 16.2 | 22.30714183 | 114.221893 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 19:35:20 | 4.5 | 10.8 | 22.30895217 | 114.2267877 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 19:45:09 | 4.5 | 15.7 | 22.31658383 | 114.2157268 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:08:51 | 4.5 | 27.4 | 22.36622117 | 114.1762742 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:11:06 | 4.5 | 16.2 | 22.3629195 | 114.1723908 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:11:07 | 4.3 | 20.6 | 22.3629155 | 114.1723378 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:12:19 | 4.5 | 7.2 | 22.365555 | 114.1730448 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:12:21 | 5 | 16.2 | 22.36559167 | 114.1730997 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:13:11 | 4.5 | 14.8 | 22.3675485 | 114.1743287 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:13:57 | 5 | 14.4 | 22.36887567 | 114.1750947 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:13:58 | 4.3 | 18.8 | 22.368906 | 114.1751292 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:15:54 | 4.9 | 16.6 | 22.37329717 | 114.1772313 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:18:08 | 4.5 | 13 | 22.37551233 | 114.1775837 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:19:38 | 4.5 | 12.6 | 22.37567733 | 114.1759087 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:21:18 | 4.8 | 13 | 22.37728833 | 114.17298 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:24:15 | 4.5 | 5.4 | 22.37748017 | 114.1736027 |
| 69496 | | STD | 2018-07-24 | 80 | KU5626 | 80 | KT.FRY | 2018-07-24 19:29:24 | 2018-07-24 19:32:00 | 2018-07-24 20:24:17 | 5 | 14.4 | 22.377492 | 114.173661 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:37:16 | 5.1 | 6.4 | 22.37785983 | 114.1747143 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:37:17 | 4.6 | 11.1 | 22.37785983 | 114.1747132 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:38:38 | 5.3 | 5.3 | 22.3769015 | 114.1749222 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:38:39 | 4.4 | 9.7 | 22.376899 | 114.1749242 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:41:03 | 4.2 | 6.8 | 22.376878 | 114.171727 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:41:05 | 4.1 | 15.2 | 22.376883 | 114.1717545 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:42:14 | 5.1 | 10.6 | 22.37747583 | 114.1737115 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:42:59 | 4.2 | 9.6 | 22.3759465 | 114.1755102 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:43:40 | 5.1 | 8.1 | 22.37383467 | 114.1770128 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:44:30 | 5.8 | 7 | 22.3723315 | 114.1781653 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:44:31 | 4.4 | 11.4 | 22.37232733 | 114.1781688 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:44:58 | 4.5 | 11 | 22.3717795 | 114.1786167 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:44:59 | 4.5 | 15.5 | 22.37176917 | 114.1786298 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:46:08 | 5.1 | 7.6 | 22.36917583 | 114.175604 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:46:09 | 4 | 11.7 | 22.36917167 | 114.1755998 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:46:10 | 4.1 | 15.9 | 22.3691575 | 114.1755863 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:47:44 | 4.8 | 8.6 | 22.3653105 | 114.1729832 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:48:16 | 4.7 | 10 | 22.3651015 | 114.172756 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:48:17 | 4.1 | 14.2 | 22.365091 | 114.1727462 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:48:53 | 4.3 | 9.4 | 22.36418883 | 114.1719528 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:49:46 | 5.5 | 5.5 | 22.363633 | 114.1714288 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:49:47 | 4.4 | 9.9 | 22.36363083 | 114.1714272 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:50:53 | 4.5 | 6.7 | 22.36385467 | 114.1737608 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:50:54 | 4.8 | 11.6 | 22.36385783 | 114.1737652 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:50:55 | 4.1 | 15.7 | 22.36386917 | 114.1737802 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:51:57 | 5.7 | 8.9 | 22.36538217 | 114.1751707 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:51:58 | 4 | 12.9 | 22.36538517 | 114.1751818 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:53:20 | 4.8 | 7.3 | 22.36678183 | 114.1763807 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:54:47 | 4.1 | 10.6 | 22.369031 | 114.1791513 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 20:55:42 | 4.1 | 11.2 | 22.3693515 | 114.1800745 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:02:26 | 5.4 | 7.5 | 22.3418325 | 114.1917717 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:03:24 | 5.8 | 5.8 | 22.34181833 | 114.1957102 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:07:07 | 5.2 | 8.7 | 22.336796 | 114.2070022 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:09:36 | 5.1 | 6.9 | 22.32535 | 114.2143222 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:10:36 | 5 | 9.4 | 22.32118567 | 114.2146865 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:11:35 | 4.3 | 9.7 | 22.31747617 | 114.2153188 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:13:01 | 4.6 | 9.7 | 22.31553533 | 114.2183938 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:13:54 | 4.9 | 8.2 | 22.31448967 | 114.2211333 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:14:35 | 4.2 | 10.7 | 22.3138025 | 114.2228892 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:16:05 | 4.8 | 12 | 22.31304033 | 114.2249593 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:16:06 | 4.2 | 16.2 | 22.313032 | 114.2249743 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:18:52 | 6 | 7.5 | 22.309628 | 114.2235453 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:18:53 | 4.7 | 12.2 | 22.30962367 | 114.2235432 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:18:54 | 4.1 | 16.4 | 22.30961133 | 114.2235287 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 20:34:30 | 2018-07-24 20:37:00 | 2018-07-24 21:22:17 | 5.1 | 8.6 | 22.30782 | 114.2217892 |
| 69496 | | STD | NULL | NULL | PV2956 | NULL | NULL | 2018-07-24 21:32:39 | NULL | 2018-07-24 21:34:59 | 4.2 | 4.2 | 22.3078965 | 114.2218557 |
| 69496 | | STD | NULL | NULL | PV2956 | NULL | NULL | 2018-07-24 21:32:39 | NULL | 2018-07-24 21:34:59 | 4.2 | 4.2 | 22.3078965 | 114.2218557 |
| 69496 | | STD | NULL | NULL | PV2956 | NULL | NULL | 2018-07-24 21:32:39 | NULL | 2018-07-24 21:34:59 | 4.2 | 4.2 | 22.3078965 | 114.2218557 |
| 69496 | | STD | NULL | NULL | PV2956 | NULL | NULL | 2018-07-24 21:32:39 | NULL | 2018-07-24 21:34:59 | 4.2 | 4.2 | 22.3078965 | 114.2218557 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:37:11 | 5.9 | 9.4 | 22.3091145 | 114.2270707 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:37:11 | 5.9 | 9.4 | 22.3091145 | 114.2270707 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:37:11 | 5.9 | 9.4 | 22.3091145 | 114.2270707 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:37:11 | 5.9 | 9.4 | 22.3091145 | 114.2270707 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:37:12 | 4.8 | 14.2 | 22.309123 | 114.2270763 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:37:12 | 4.8 | 14.2 | 22.309123 | 114.2270763 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:37:12 | 4.8 | 14.2 | 22.309123 | 114.2270763 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:37:12 | 4.8 | 14.2 | 22.309123 | 114.2270763 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:38:30 | 5.1 | 8.7 | 22.30895383 | 114.2284508 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:38:30 | 5.1 | 8.7 | 22.30895383 | 114.2284508 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:38:30 | 5.1 | 8.7 | 22.30895383 | 114.2284508 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:38:30 | 5.1 | 8.7 | 22.30895383 | 114.2284508 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:38:56 | 5.1 | 9.9 | 22.310043 | 114.2291012 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:38:56 | 5.1 | 9.9 | 22.310043 | 114.2291012 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:38:56 | 5.1 | 9.9 | 22.310043 | 114.2291012 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:38:56 | 5.1 | 9.9 | 22.310043 | 114.2291012 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:45:28 | 4.6 | 4.6 | 22.31651183 | 114.2158108 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:45:28 | 4.6 | 4.6 | 22.31651183 | 114.2158108 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:45:28 | 4.6 | 4.6 | 22.31651183 | 114.2158108 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:45:28 | 4.6 | 4.6 | 22.31651183 | 114.2158108 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:45:29 | 4.4 | 9.1 | 22.31651917 | 114.2158045 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:45:29 | 4.4 | 9.1 | 22.31651917 | 114.2158045 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:45:29 | 4.4 | 9.1 | 22.31651917 | 114.2158045 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:45:29 | 4.4 | 9.1 | 22.31651917 | 114.2158045 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:46:25 | 4.3 | 9.9 | 22.3201625 | 114.2145448 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:46:25 | 4.3 | 9.9 | 22.3201625 | 114.2145448 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:46:25 | 4.3 | 9.9 | 22.3201625 | 114.2145448 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:46:25 | 4.3 | 9.9 | 22.3201625 | 114.2145448 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:48:39 | 5.4 | 6.8 | 22.3255825 | 114.213979 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:48:39 | 5.4 | 6.8 | 22.3255825 | 114.213979 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:48:39 | 5.4 | 6.8 | 22.3255825 | 114.213979 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:48:39 | 5.4 | 6.8 | 22.3255825 | 114.213979 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:49:33 | 4.6 | 6.5 | 22.3288005 | 114.211846 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:49:33 | 4.6 | 6.5 | 22.3288005 | 114.211846 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:49:33 | 4.6 | 6.5 | 22.3288005 | 114.211846 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:49:33 | 4.6 | 6.5 | 22.3288005 | 114.211846 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:52:14 | 5 | 7.5 | 22.33359917 | 114.2088177 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:52:14 | 5 | 7.5 | 22.33359917 | 114.2088177 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:52:14 | 5 | 7.5 | 22.33359917 | 114.2088177 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:52:14 | 5 | 7.5 | 22.33359917 | 114.2088177 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:54:05 | 4.2 | 9.6 | 22.33658533 | 114.20681 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:54:05 | 4.2 | 9.6 | 22.33658533 | 114.20681 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:54:05 | 4.2 | 9.6 | 22.33658533 | 114.20681 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:54:05 | 4.2 | 9.6 | 22.33658533 | 114.20681 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:55:36 | 4.6 | 7.5 | 22.33917 | 114.2024685 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:55:36 | 4.6 | 7.5 | 22.33917 | 114.2024685 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:55:36 | 4.6 | 7.5 | 22.33917 | 114.2024685 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:55:36 | 4.6 | 7.5 | 22.33917 | 114.2024685 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:57:54 | 4.8 | 4.8 | 22.341629 | 114.1943222 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:57:54 | 4.8 | 4.8 | 22.341629 | 114.1943222 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:57:54 | 4.8 | 4.8 | 22.341629 | 114.1943222 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:57:54 | 4.8 | 4.8 | 22.341629 | 114.1943222 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:57:55 | 4.4 | 9.2 | 22.34162933 | 114.1943182 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:57:55 | 4.4 | 9.2 | 22.34162933 | 114.1943182 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:57:55 | 4.4 | 9.2 | 22.34162933 | 114.1943182 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 21:57:55 | 4.4 | 9.2 | 22.34162933 | 114.1943182 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:12:19 | 4.1 | 6.5 | 22.36543483 | 114.1754177 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:12:19 | 4.1 | 6.5 | 22.36543483 | 114.1754177 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:12:19 | 4.1 | 6.5 | 22.36543483 | 114.1754177 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:14:33 | 5.5 | 5.5 | 22.36330167 | 114.1714392 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:14:33 | 5.5 | 5.5 | 22.36330167 | 114.1714392 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:14:33 | 5.5 | 5.5 | 22.36330167 | 114.1714392 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:14:33 | 5.5 | 5.5 | 22.36330167 | 114.1714392 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:16:53 | 5.6 | 7 | 22.3674815 | 114.1743285 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:16:53 | 5.6 | 7 | 22.3674815 | 114.1743285 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:16:53 | 5.6 | 7 | 22.3674815 | 114.1743285 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:16:53 | 5.6 | 7 | 22.3674815 | 114.1743285 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:17:32 | 4.6 | 6.5 | 22.36883467 | 114.1750773 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:17:32 | 4.6 | 6.5 | 22.36883467 | 114.1750773 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:17:32 | 4.6 | 6.5 | 22.36883467 | 114.1750773 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|--------------|
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:17:32 | 4.6 | 6.5 | 22.36883467 | 114.1750773 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:17:33 | 4.4 | 10.9 | 22.3688395 | 114.1750813 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:17:33 | 4.4 | 10.9 | 22.3688395 | 114.1750813 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:17:33 | 4.4 | 10.9 | 22.3688395 | 114.1750813 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:17:33 | 4.4 | 10.9 | 22.3688395 | 114.1750813 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:19:20 | 5 | 9.5 | 22.37269167 | 114.1777262 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:19:20 | 5 | 9.5 | 22.37269167 | 114.1777262 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:19:20 | 5 | 9.5 | 22.37269167 | 114.1777262 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:19:20 | 5 | 9.5 | 22.37269167 | 114.1777262 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:19:54 | 4.2 | 9.6 | 22.37329617 | 114.1771997 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:19:54 | 4.2 | 9.6 | 22.37329617 | 114.1771997 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:19:54 | 4.2 | 9.6 | 22.37329617 | 114.1771997 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:19:54 | 4.2 | 9.6 | 22.37329617 | 114.1771997 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:23:47 | 4.7 | 9.6 | 22.37704183 | 114.1739947 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:23:47 | 4.7 | 9.6 | 22.37704183 | 114.1739947 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:23:47 | 4.7 | 9.6 | 22.37704183 | 114.1739947 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:23:47 | 4.7 | 9.6 | 22.37704183 | 114.1739947 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:26:13 | 5.6 | 5.6 | 22.37595467 | 114.1705662 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:26:13 | 5.6 | 5.6 | 22.37595467 | 114.1705662 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:26:13 | 5.6 | 5.6 | 22.37595467 | 114.1705662 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:26:13 | 5.6 | 5.6 | 22.37595467 | 114.1705662 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:26:14 | 5.7 | 11.4 | 22.37595483 | 114.1705682 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:26:14 | 5.7 | 11.4 | 22.37595483 | 114.1705682 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:26:14 | 5.7 | 11.4 | 22.37595483 | 114.1705682 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | KT.FRY | 2018-07-24 21:32:39 | 2018-07-24 21:35:00 | 2018-07-24 22:26:14 | 5.7 | 11.4 | 22.37595483 | 114.1705682 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:28:52 | 6.1 | 9.2 | 22.3777205 | 114.1752633 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:28:52 | 6.1 | 9.2 | 22.3777205 | 114.1752633 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:28:52 | 6.1 | 9.2 | 22.3777205 | 114.1752633 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:28:52 | 6.1 | 9.2 | 22.3777205 | 114.1752633 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:28:53 | 4.2 | 13.4 | 22.37770833 | 114.1752437 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:28:53 | 4.2 | 13.4 | 22.37770833 | 114.1752437 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:28:53 | 4.2 | 13.4 | 22.37770833 | 114.1752437 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:28:53 | 4.2 | 13.4 | 22.37770833 | 114.1752437 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:29:46 | 5.7 | 9 | 22.3776855 | 114.1747902 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:29:46 | 5.7 | 9 | 22.3776855 | 114.1747902 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:29:46 | 5.7 | 9 | 22.3776855 | 114.1747902 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:29:46 | 5.7 | 9 | 22.3776855 | 114.1747902 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:30:16 | 4.2 | 10 | 22.3769175 | 114.1749467 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:30:16 | 4.2 | 10 | 22.3769175 | 114.1749467 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:30:16 | 4.2 | 10 | 22.3769175 | 114.1749467 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:30:16 | 4.2 | 10 | 22.3769175 | 114.1749467 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:31:00 | 5.3 | 7.5 | 22.37590717 | 114.1755493 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:31:00 | 5.3 | 7.5 | 22.37590717 | 114.1755493 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:31:00 | 5.3 | 7.5 | 22.37590717 | 114.1755493 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:31:00 | 5.3 | 7.5 | 22.37590717 | 114.1755493 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:32:35 | 4.9 | 9.4 | 22.36971083 | 114.1802422 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:32:35 | 4.9 | 9.4 | 22.36971083 | 114.1802422 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:32:35 | 4.9 | 9.4 | 22.36971083 | 114.1802422 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:32:35 | 4.9 | 9.4 | 22.36971083 | 114.1802422 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:46:10 | 4.9 | 8.2 | 22.30890567 | 114.2223185 |
| 69496 | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:46:10 | 4.9 | 8.2 | 22.30890567 | 114.2223185 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:46:10 | 4.9 | 8.2 | 22.30890567 | 114.2223185 |
| 69496 | | STD | 2018-07-24 | 80 | PV2956 | 80 | MEILAM | 2018-07-24 21:32:39 | 2018-07-24 22:28:00 | 2018-07-24 22:46:10 | 4.9 | 8.2 | 22.30890567 | 114.2223185 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:21:18 | 4.7 | 12.3 | 22.37777967 | 114.1746542 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:22:43 | 4.5 | 8.8 | 22.37678717 | 114.1749982 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:22:50 | 5.3 | 23 | 22.37662917 | 114.1749847 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:25:30 | 6.3 | 17.1 | 22.37684117 | 114.1717908 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:25:31 | 4.4 | 21.6 | 22.37684633 | 114.1718112 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:26:19 | 5.4 | 11 | 22.3774645 | 114.1736548 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:26:20 | 5.6 | 16.6 | 22.37746717 | 114.1736632 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:26:21 | 5.4 | 22 | 22.377472 | 114.1736847 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:27:04 | 5.9 | 14.3 | 22.37583317 | 114.1755837 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:28:04 | 5.1 | 15.5 | 22.3737935 | 114.17699 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:28:34 | 5.9 | 15.9 | 22.37306817 | 114.177496 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:29:16 | 6.4 | 15.7 | 22.371777 | 114.1786097 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:29:17 | 5.2 | 21 | 22.371768 | 114.1786233 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:30:09 | 6 | 18 | 22.3706965 | 114.1778138 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:30:10 | 4 | 22.1 | 22.37068783 | 114.1777932 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:30:56 | 5.7 | 12.6 | 22.36905117 | 114.1754457 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:30:57 | 6 | 18.6 | 22.36904617 | 114.1754398 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:30:58 | 4.7 | 23.4 | 22.3690305 | 114.1754247 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:31:25 | 5.5 | 16.3 | 22.36863583 | 114.175124 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:31:26 | 4.6 | 21 | 22.36862217 | 114.1751118 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:32:48 | 5.4 | 10.5 | 22.36785783 | 114.1746193 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:32:49 | 6 | 16.5 | 22.367856 | 114.174614 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:32:50 | 5.1 | 21.7 | 22.36784317 | 114.1746017 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:34:12 | 5 | 17.9 | 22.36511717 | 114.1727662 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:34:13 | 4.5 | 22.4 | 22.36510167 | 114.1727527 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:34:56 | 5.2 | 12.2 | 22.3641575 | 114.1719492 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:34:57 | 5.4 | 17.7 | 22.3641515 | 114.1719433 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:34:58 | 4.1 | 21.8 | 22.36413883 | 114.1719282 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:36:02 | 4.4 | 11 | 22.36356833 | 114.1713888 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:36:10 | 4 | 24.7 | 22.36337183 | 114.1713662 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:37:33 | 5.7 | 12.5 | 22.36386217 | 114.1738128 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:37:34 | 5 | 17.6 | 22.36386883 | 114.1738197 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:38:36 | 4.1 | 9.9 | 22.36540167 | 114.1752102 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:39:23 | 5.6 | 11.4 | 22.36620483 | 114.1761035 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:39:24 | 5.7 | 17.2 | 22.36620567 | 114.1761068 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:39:25 | 4.1 | 21.3 | 22.36621217 | 114.1761253 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:40:34 | 5 | 10.4 | 22.36687283 | 114.1763818 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:41:46 | 5.1 | 14.9 | 22.36790717 | 114.176932 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:41:47 | 5 | 19.9 | 22.36792167 | 114.1769468 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:42:50 | 5 | 19 | 22.36870217 | 114.1784052 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:42:51 | 4.4 | 23.4 | 22.36871367 | 114.178432 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:43:39 | 4.9 | 16.3 | 22.36905667 | 114.1792002 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:43:40 | 4.4 | 20.8 | 22.36905833 | 114.1792218 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:44:23 | 5.1 | 11 | 22.3693235 | 114.1799845 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:44:24 | 5.2 | 16.3 | 22.36932717 | 114.179993 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:44:25 | 4.1 | 20.5 | 22.36933533 | 114.180013 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:51:49 | 4.8 | 15.3 | 22.34273017 | 114.1864188 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:51:50 | 5.2 | 20.5 | 22.34272583 | 114.1864382 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:51:51 | 5.3 | 25.9 | 22.34271833 | 114.186469 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:52:44 | 5.5 | 13.3 | 22.34227033 | 114.1900142 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:52:45 | 6.1 | 19.5 | 22.34226117 | 114.190023 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:52:46 | 5.6 | 25.1 | 22.34224283 | 114.1900433 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:53:36 | 5 | 18.4 | 22.34182167 | 114.1918227 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:54:43 | 4.8 | 20.5 | 22.34181033 | 114.1957323 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:56:10 | 4.3 | 17.1 | 22.33956417 | 114.2028327 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:57:25 | 4.8 | 23 | 22.33675417 | 114.2070883 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:59:57 | 4.7 | 15.3 | 22.32534217 | 114.2143417 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 12:59:58 | 4.9 | 20.3 | 22.32532183 | 114.2143365 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:00:53 | 4.8 | 10.7 | 22.32118433 | 114.2146423 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:00:54 | 5.6 | 16.3 | 22.32117683 | 114.2146423 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:00:55 | 5 | 21.4 | 22.32115783 | 114.214642 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:02:51 | 5.3 | 11 | 22.3157025 | 114.2182095 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:03:47 | 4.9 | 12.9 | 22.3144805 | 114.2210927 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:06:18 | 5.5 | 13.7 | 22.31294917 | 114.2247568 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:06:19 | 4.7 | 18.4 | 22.31293983 | 114.2247667 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:08:23 | 5.1 | 15.1 | 22.309917 | 114.224279 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:08:24 | 4.5 | 19.7 | 22.30990733 | 114.2242652 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:09:49 | 6.1 | 18.6 | 22.3089905 | 114.2229482 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:09:50 | 4.9 | 23.6 | 22.308975 | 114.2229275 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:10:52 | 5 | 11.3 | 22.30712133 | 114.2219733 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:10:53 | 6 | 17.3 | 22.307135 | 114.2219588 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 12:17:54 | 2018-07-25 12:20:00 | 2018-07-25 13:10:54 | 4.5 | 21.8 | 22.30715067 | 114.2219418 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:27:30 | 5.2 | 11.5 | 22.30771117 | 114.2233962 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:27:31 | 5.8 | 17.4 | 22.30770433 | 114.2233997 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:27:32 | 5.5 | 22.9 | 22.3076875 | 114.2234122 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:28:22 | 5.2 | 14.7 | 22.30803467 | 114.2256452 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:28:23 | 5.3 | 20 | 22.30804517 | 114.2256602 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:29:36 | 4.6 | 9.9 | 22.30907783 | 114.2272437 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:29:37 | 5.6 | 15.5 | 22.30908333 | 114.2272477 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:30:17 | 5.4 | 10.2 | 22.30911533 | 114.2285207 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:30:18 | 6.1 | 16.3 | 22.309126 | 114.2285223 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:30:19 | 5.6 | 22 | 22.30914083 | 114.2285317 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:32:17 | 4.5 | 8.3 | 22.31295283 | 114.2239462 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:33:12 | 5 | 12.2 | 22.314119 | 114.2212107 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:33:13 | 6 | 18.2 | 22.3141235 | 114.2212002 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:33:14 | 4.4 | 22.6 | 22.31413433 | 114.221179 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:35:46 | 5.5 | 17.6 | 22.32213967 | 114.2143143 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:35:47 | 4 | 21.6 | 22.32216233 | 114.2143153 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:36:50 | 4.7 | 13.1 | 22.32561933 | 114.2139872 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:36:51 | 6.1 | 19.2 | 22.32563283 | 114.2139857 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:39:16 | 5.9 | 14.2 | 22.33399133 | 114.2078948 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:39:17 | 5.2 | 19.4 | 22.33400233 | 114.2079028 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:40:12 | 5.6 | 17.5 | 22.33664617 | 114.2068095 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:40:13 | 4.4 | 22 | 22.33666133 | 114.2067928 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:41:11 | 4.7 | 14.5 | 22.33921667 | 114.202482 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:41:12 | 5 | 19.5 | 22.33922517 | 114.2024687 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:43:02 | 4.8 | 10.5 | 22.34163967 | 114.194281 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:43:03 | 5.4 | 16 | 22.34164517 | 114.1942745 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:43:04 | 4.6 | 20.7 | 22.34164583 | 114.1942535 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:43:47 | 5.3 | 15.6 | 22.3414955 | 114.1914837 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:43:48 | 4.5 | 20.2 | 22.3414975 | 114.1914645 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:50:50 | 5.3 | 11 | 22.36889583 | 114.1790443 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:50:51 | 4.8 | 15.8 | 22.3688905 | 114.1790352 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:51:31 | 4.6 | 11.9 | 22.36850983 | 114.1781033 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:51:32 | 5.1 | 17 | 22.36850533 | 114.1780923 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:51:33 | 4.2 | 21.3 | 22.36849683 | 114.1780702 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:53:13 | 5.6 | 12.1 | 22.36754767 | 114.1765653 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:53:47 | 4.4 | 28.2 | 22.36624283 | 114.1763927 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:54:31 | 4.5 | 19.6 | 22.365485 | 114.1753462 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:55:49 | 5.8 | 14.5 | 22.36286883 | 114.1724797 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:55:50 | 5.6 | 20.1 | 22.36286617 | 114.172462 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:55:51 | 4.9 | 25 | 22.36286317 | 114.1724308 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:56:29 | 5.3 | 14 | 22.36336667 | 114.1713523 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:56:37 | 4.3 | 24.3 | 22.3636495 | 114.171317 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:57:19 | 6.2 | 16 | 22.36559633 | 114.1729793 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:57:20 | 5.4 | 21.5 | 22.36561017 | 114.1729913 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:58:20 | 4.7 | 10 | 22.3675325 | 114.1742598 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:58:21 | 5.7 | 15.8 | 22.3675375 | 114.1742623 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:58:22 | 4.6 | 20.5 | 22.36755333 | 114.174269 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:59:25 | 5.5 | 11.1 | 22.36890033 | 114.1750678 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:59:26 | 5.4 | 16.6 | 22.36890333 | 114.1750745 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 13:59:27 | 4.2 | 20.9 | 22.36891367 | 114.1750922 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:00:14 | 4.9 | 20.1 | 22.3714265 | 114.1783212 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:01:09 | 5.6 | 17.5 | 22.373297 | 114.1771212 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:01:10 | 4.3 | 21.8 | 22.373322 | 114.1771182 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:02:09 | 5.9 | 12.8 | 22.37402383 | 114.1766915 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:02:10 | 4.2 | 17.1 | 22.37403383 | 114.1766802 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:05:26 | 4.5 | 11.8 | 22.376229 | 114.1769607 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:06:40 | 5.4 | 12.1 | 22.375688 | 114.1759678 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:06:41 | 4.8 | 17 | 22.375685 | 114.1759575 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:07:47 | 5.2 | 10.3 | 22.3772645 | 114.1740138 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:07:48 | 5.3 | 15.7 | 22.37726717 | 114.1740102 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:10:07 | 4.4 | 23.4 | 22.37660317 | 114.1709512 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:11:18 | 5.3 | 13 | 22.3774915 | 114.173731 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:11:19 | 6.9 | 19.9 | 22.37750083 | 114.1737403 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 13:24:04 | 2018-07-25 13:26:00 | 2018-07-25 14:11:20 | 4.3 | 24.3 | 22.37750833 | 114.1737658 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:39:18 | 4.7 | 13.4 | 22.37778267 | 114.1746227 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:43:16 | 4.5 | 23.5 | 22.37652067 | 114.1710355 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:44:18 | 5.4 | 12.7 | 22.37742283 | 114.1736958 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:44:19 | 5.8 | 18.6 | 22.3774355 | 114.173705 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:44:20 | 4.1 | 22.8 | 22.377441 | 114.173729 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:45:06 | 4.6 | 20.2 | 22.375871 | 114.1755672 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:45:59 | 5.2 | 11.8 | 22.37381217 | 114.1770145 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:46:00 | 5.2 | 17 | 22.37380433 | 114.1770178 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:46:01 | 4.3 | 21.4 | 22.37378617 | 114.1770282 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:46:33 | 5.6 | 14.9 | 22.37307317 | 114.1775482 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:46:34 | 5.7 | 20.7 | 22.37306033 | 114.177559 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:47:03 | 4.2 | 23.7 | 22.37172633 | 114.1787148 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:48:17 | 5 | 18.4 | 22.36866517 | 114.1750558 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:48:18 | 4.1 | 22.6 | 22.368649 | 114.175034 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:50:00 | 4.2 | 8.9 | 22.36417567 | 114.1719663 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:50:01 | 5.3 | 14.3 | 22.36417183 | 114.1719622 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:50:02 | 5.4 | 19.7 | 22.36416033 | 114.1719502 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:50:59 | 4.7 | 12.4 | 22.3635885 | 114.1713877 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:51:57 | 5.4 | 11.3 | 22.3638585 | 114.1738018 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:51:58 | 6.1 | 17.4 | 22.36386317 | 114.1738067 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:51:59 | 5.1 | 22.5 | 22.3638765 | 114.1738215 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:52:45 | 5.5 | 15.7 | 22.36543333 | 114.1752025 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:52:46 | 5.7 | 21.4 | 22.365447 | 114.1752142 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:52:47 | 4.1 | 25.6 | 22.365469 | 114.175237 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:56:08 | 5.5 | 11 | 22.36868667 | 114.1782632 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:56:09 | 5.2 | 16.3 | 22.36867283 | 114.1782817 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:57:28 | 5.2 | 18.4 | 22.36905517 | 114.179214 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:57:29 | 4.4 | 22.8 | 22.36905567 | 114.1792412 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 14:58:43 | 4.9 | 14.6 | 22.36610533 | 114.1807633 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:04:02 | 6.7 | 18.9 | 22.34271183 | 114.1864122 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:04:03 | 5.2 | 24.1 | 22.34270833 | 114.1864342 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:04:04 | 5.5 | 29.7 | 22.3426995 | 114.1864725 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:04:07 | 4.2 | 42.2 | 22.34265917 | 114.186678 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:05:09 | 4.8 | 10.6 | 22.34184083 | 114.1918235 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:05:10 | 5.1 | 15.7 | 22.34184083 | 114.1918437 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:05:11 | 5.3 | 21.1 | 22.34184083 | 114.1918437 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:06:01 | 4.6 | 13.4 | 22.34176267 | 114.1951973 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:06:02 | 4.3 | 17.7 | 22.34176183 | 114.1952133 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:06:33 | 5.4 | 12.2 | 22.34179533 | 114.1955725 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:06:34 | 5.6 | 17.9 | 22.341795 | 114.1955838 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:08:20 | 5.4 | 12.3 | 22.33935683 | 114.2029998 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:08:21 | 5.7 | 18 | 22.339351 | 114.2030083 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:08:22 | 4.7 | 22.7 | 22.3393355 | 114.2030268 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:08:42 | 6.2 | 15.5 | 22.3386705 | 114.2038808 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:08:43 | 5.4 | 20.9 | 22.33865683 | 114.2038883 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:09:33 | 4.1 | 10.2 | 22.33680883 | 114.2070318 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:11:34 | 4 | 8.3 | 22.33366167 | 114.2079772 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:15:59 | 4.7 | 16.4 | 22.32604367 | 114.2142565 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:16:40 | 4.8 | 20 | 22.32526967 | 114.2142733 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:17:57 | 4.7 | 21.5 | 22.32136333 | 114.2146135 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:18:52 | 5.1 | 11.6 | 22.31746867 | 114.2152742 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:18:53 | 5.6 | 17.2 | 22.31745017 | 114.2152837 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:18:54 | 4.8 | 22 | 22.3174205 | 114.2153013 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:20:11 | 4.6 | 23.3 | 22.3143895 | 114.2209903 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:21:45 | 4.6 | 22 | 22.31341617 | 114.2239462 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:23:17 | 5.1 | 19.7 | 22.31258133 | 114.2261637 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:25:26 | 6.2 | 17.6 | 22.31139917 | 114.2257578 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:27:12 | 5.2 | 21.5 | 22.309699 | 114.2239717 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:28:30 | 4.6 | 9.5 | 22.3071215 | 114.2218727 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:28:31 | 5.6 | 15.1 | 22.307136 | 114.2218598 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | MEILAM | 2018-07-25 14:35:51 | 2018-07-25 14:38:00 | 2018-07-25 15:28:32 | 5.7 | 20.9 | 22.30715917 | 114.2218405 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 15:56:59 | 4.6 | 17.8 | 22.30874 | 114.2221047 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 15:57:00 | 4.2 | 22 | 22.3087755 | 114.2221183 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 15:58:19 | 4.8 | 12.6 | 22.30796717 | 114.2256337 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 15:58:20 | 5.4 | 18 | 22.30798367 | 114.2256527 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 15:58:21 | 4.1 | 22.2 | 22.30800467 | 114.2256848 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 15:58:45 | 5.1 | 19.4 | 22.30880767 | 114.2268732 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:05:27 | 5.2 | 17.4 | 22.31040733 | 114.2291437 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:05:28 | 4.8 | 22.3 | 22.31043233 | 114.229119 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:07:20 | 4.8 | 11 | 22.3131295 | 114.22404 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:08:02 | 6.4 | 17.1 | 22.31335467 | 114.223557 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:08:03 | 5.1 | 22.2 | 22.31336733 | 114.2235268 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:08:45 | 4.9 | 10.6 | 22.31424867 | 114.2212975 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:08:46 | 5.8 | 16.4 | 22.3142555 | 114.2212802 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:08:47 | 4.6 | 21.1 | 22.31426517 | 114.2212488 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:10:03 | 5.7 | 12.2 | 22.31510267 | 114.2189013 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:10:04 | 5.8 | 18.1 | 22.31511017 | 114.2188788 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:10:52 | 4.9 | 9.5 | 22.31655017 | 114.2158268 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:10:53 | 5.8 | 15.4 | 22.31656233 | 114.2158148 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:10:54 | 5.3 | 20.7 | 22.316584 | 114.2157932 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:11:47 | 5.4 | 19.6 | 22.32022267 | 114.2145292 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:12:38 | 5.5 | 16.7 | 22.3221605 | 114.2143123 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:12:39 | 4.3 | 21.1 | 22.32219433 | 114.2143168 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:13:38 | 5.2 | 15.1 | 22.32564283 | 114.213986 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:13:39 | 5.3 | 20.5 | 22.32567267 | 114.2139852 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:17:19 | 4.6 | 10.4 | 22.33667117 | 114.2068042 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:17:20 | 5.2 | 15.6 | 22.336683 | 114.2067888 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:17:21 | 5.1 | 20.8 | 22.33670283 | 114.206764 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:19:29 | 5.2 | 18.3 | 22.33924683 | 114.2024297 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:21:48 | 5 | 16.4 | 22.34163433 | 114.194226 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:21:49 | 4.3 | 20.8 | 22.34163367 | 114.1941893 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:24:09 | 4.7 | 15.5 | 22.3423825 | 114.1882903 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:24:10 | 4.1 | 19.6 | 22.3423855 | 114.1882733 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:30:21 | 6.7 | 13.7 | 22.365729 | 114.1806865 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:30:22 | 6.3 | 20.1 | 22.365741 | 114.180682 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:30:23 | 4.1 | 24.2 | 22.36576783 | 114.1806772 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:32:26 | 4 | 8.4 | 22.36921117 | 114.179838 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:33:31 | 4 | 14.8 | 22.36890817 | 114.1791243 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:34:30 | 5.5 | 18.1 | 22.36848333 | 114.1780735 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:36:20 | 4.9 | 11.1 | 22.36743333 | 114.1763667 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:36:49 | 4.1 | 27.9 | 22.36624667 | 114.1763933 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:37:30 | 4.9 | 14.1 | 22.365447 | 114.1753767 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:37:31 | 4.9 | 19 | 22.365437 | 114.1753618 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:38:51 | 5.3 | 12.8 | 22.362874 | 114.1724743 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:38:52 | 5.4 | 18.2 | 22.36287417 | 114.1724607 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:38:53 | 5.2 | 23.5 | 22.36287933 | 114.1724308 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:39:57 | 5.1 | 19.2 | 22.364933 | 114.1724805 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:40:23 | 5.8 | 15.5 | 22.36557283 | 114.1730178 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:40:24 | 5.6 | 21.2 | 22.36558417 | 114.1730322 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:40:43 | 4.5 | 22.6 | 22.3662195 | 114.173636 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:42:09 | 5.4 | 14.9 | 22.3675305 | 114.174304 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:42:10 | 5.1 | 20.1 | 22.36754483 | 114.17431 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:42:55 | 5.4 | 12.3 | 22.36885 | 114.175075 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:42:56 | 6.3 | 18.7 | 22.36885633 | 114.1750807 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:42:57 | 4.9 | 23.6 | 22.36887183 | 114.1750957 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:45:04 | 5 | 15.4 | 22.37384183 | 114.176861 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:46:57 | 5 | 12 | 22.37544917 | 114.177672 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:46:58 | 5.6 | 17.7 | 22.37546267 | 114.177662 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:46:59 | 4.8 | 22.5 | 22.37548467 | 114.1776467 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:47:40 | 5.3 | 11.7 | 22.37618417 | 114.1770668 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:47:41 | 4.1 | 15.8 | 22.376191 | 114.1770622 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:48:18 | 5.1 | 15.1 | 22.375798 | 114.1760955 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:48:19 | 5.4 | 20.6 | 22.3757875 | 114.1760785 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:49:24 | 6.1 | 16.3 | 22.37725617 | 114.174028 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:49:59 | 5.9 | 15.6 | 22.37729067 | 114.1730372 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:50:00 | 5.2 | 20.8 | 22.37728667 | 114.1730147 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:53:00 | 4.5 | 13.7 | 22.3775335 | 114.1737127 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:53:01 | 4.2 | 17.9 | 22.3775365 | 114.1737272 |
| 69496 | | STD | 2018-07-25 | 80 | UX8921 | 80 | KT.FRY | 2018-07-25 15:53:06 | 2018-07-25 15:56:00 | 2018-07-25 16:53:02 | 4 | 22 | 22.3775405 | 114.1737565 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:29:01 | 4.1 | 11.7 | 0 | 0 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:30:42 | 4.5 | 10.8 | 22.377533 | 114.1736783 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:30:43 | 4.8 | 15.7 | 22.37753733 | 114.1737057 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:30:44 | 4 | 19.7 | 22.37754317 | 114.173747 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:31:35 | 4.5 | 14.4 | 22.37596033 | 114.1755222 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:33:13 | 4 | 20.2 | 22.3743145 | 114.176545 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:55:57 | 4.8 | 13.9 | 22.342649 | 114.18643 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:55:58 | 5.3 | 19.3 | 22.34263617 | 114.1864608 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:55:59 | 5.4 | 24.7 | 22.342626 | 114.186505 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:56:00 | 4.8 | 29.6 | 22.34261333 | 114.1865662 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:56:01 | 4.9 | 34.6 | 22.34260367 | 114.1866407 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 18:56:02 | 4.4 | 39 | 22.34259517 | 114.186728 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 19:10:17 | 4 | 18.4 | 22.32109083 | 114.2146797 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | MEILAM | 2018-07-25 18:22:39 | 2018-07-25 18:25:00 | 2018-07-25 19:19:16 | 4.5 | 10.8 | 22.30959433 | 114.2238177 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | KT.FRY | 2018-07-25 19:27:18 | 2018-07-25 19:29:00 | 2018-07-25 19:59:56 | 5 | 12.6 | 22.36564783 | 114.180701 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | KT.FRY | 2018-07-25 19:27:18 | 2018-07-25 19:29:00 | 2018-07-25 19:59:57 | 4 | 16.6 | 22.36567083 | 114.1806975 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | KT.FRY | 2018-07-25 19:27:18 | 2018-07-25 19:29:00 | 2018-07-25 20:07:06 | 4.4 | 19.7 | 22.36291533 | 114.1723773 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | KT.FRY | 2018-07-25 19:27:18 | 2018-07-25 19:29:00 | 2018-07-25 20:08:10 | 4 | 13 | 22.36329133 | 114.1714872 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | KT.FRY | 2018-07-25 19:27:18 | 2018-07-25 19:29:00 | 2018-07-25 20:09:04 | 4.1 | 16.2 | 22.36556683 | 114.173056 |
| 69496 | | STD | 2018-07-25 | 80 | KL 631 | 80 | KT.FRY | 2018-07-25 19:27:18 | 2018-07-25 19:29:00 | 2018-07-25 20:21:56 | 4.1 | 13.5 | 22.37753533 | 114.1737057 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:39:23 | 4.9 | 11.4 | 22.37781633 | 114.1746223 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:39:24 | 4.1 | 15.5 | 22.37781367 | 114.1746212 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:42:30 | 5.6 | 11.5 | 22.37610683 | 114.1708563 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:42:31 | 5.1 | 16.7 | 22.37611017 | 114.1708625 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:42:51 | 11.2 | 28.4 | 22.37656817 | 114.1709742 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:42:52 | 5.1 | 23.2 | 22.37660217 | 114.1710075 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:43:18 | 4.9 | 10.3 | 22.37682783 | 114.1718043 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:43:19 | 4.8 | 15.1 | 22.37683033 | 114.1718098 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:44:25 | 5.7 | 13.3 | 22.37743583 | 114.1737383 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:44:26 | 7 | 20.3 | 22.37743867 | 114.173748 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:44:27 | 4.1 | 24.5 | 22.37744517 | 114.173773 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:45:09 | 5 | 10.7 | 22.3758515 | 114.1755687 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:45:10 | 6.1 | 16.8 | 22.3758475 | 114.1755715 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:45:11 | 4.7 | 21.6 | 22.3758325 | 114.1755802 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:46:05 | 5.6 | 14 | 22.3737965 | 114.1769982 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:46:06 | 5.8 | 19.8 | 22.37378283 | 114.176999 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:46:07 | 4.1 | 24 | 22.37375633 | 114.1770067 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:46:34 | 5.8 | 14.5 | 22.37305683 | 114.1774992 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:46:35 | 6.4 | 20.9 | 22.37304717 | 114.1775085 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:47:34 | 7.2 | 16.9 | 22.370684 | 114.177823 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:48:24 | 5.2 | 13.2 | 22.36900667 | 114.1754617 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:48:25 | 6.4 | 19.6 | 22.36899733 | 114.1754532 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:48:26 | 4.1 | 23.8 | 22.36897867 | 114.1754365 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:48:49 | 5.8 | 15.8 | 22.36859017 | 114.175144 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:48:50 | 5.5 | 21.4 | 22.36857717 | 114.1751323 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:49:41 | 4.2 | 8.8 | 22.36528483 | 114.1729943 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:49:42 | 5.9 | 14.7 | 22.36528083 | 114.1729898 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:50:12 | 5 | 11.2 | 22.36413 | 114.1719592 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:50:14 | 4.8 | 22.2 | 22.364111 | 114.1719362 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:50:50 | 5.3 | 11.5 | 22.36363217 | 114.1714697 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:50:51 | 6 | 17.6 | 22.36362567 | 114.1714632 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:52:00 | 5.4 | 11.3 | 22.363856 | 114.173803 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:52:27 | 4.9 | 24.7 | 22.3647955 | 114.1746893 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:52:54 | 6 | 14.5 | 22.36540933 | 114.175211 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:52:55 | 5.8 | 20.3 | 22.3654135 | 114.1752312 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:52:56 | 4.5 | 24.9 | 22.36542867 | 114.1752547 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:53:51 | 4.5 | 9.6 | 22.3662735 | 114.1763467 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:55:18 | 6.1 | 13.7 | 22.36707067 | 114.1762338 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:55:19 | 4.2 | 18 | 22.36709583 | 114.1762233 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:56:06 | 5.5 | 13.8 | 22.36870183 | 114.1783962 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:57:00 | 5.6 | 17.2 | 22.36903183 | 114.1791642 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 20:57:01 | 4.9 | 22.2 | 22.3690335 | 114.1791897 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:03:09 | 5.1 | 13.9 | 22.34262983 | 114.1864008 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:03:10 | 5.6 | 19.6 | 22.342625 | 114.186417 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:03:11 | 5.2 | 24.8 | 22.342614 | 114.186445 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:03:12 | 4.2 | 29 | 22.342602 | 114.1864862 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:03:14 | 4.5 | 38.5 | 22.34257783 | 114.1866125 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:03:15 | 4 | 42.5 | 22.342563 | 114.1866945 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:04:23 | 4.9 | 13.1 | 22.34085483 | 114.1923545 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:04:24 | 6.1 | 19.2 | 22.34085183 | 114.1923672 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:05:46 | 6 | 13.5 | 22.34170583 | 114.1952667 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:05:47 | 4.5 | 18.1 | 22.34170717 | 114.1952797 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:06:11 | 5.7 | 17.8 | 22.34174933 | 114.1956582 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:06:12 | 5 | 22.9 | 22.3417435 | 114.1956813 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:07:50 | 4.7 | 9.2 | 22.33932633 | 114.2029328 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:07:51 | 6 | 15.3 | 22.339325 | 114.2029365 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:07:52 | 5.2 | 20.5 | 22.33931583 | 114.20295 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:07:53 | 4.1 | 24.7 | 22.33929817 | 114.2029742 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:09:04 | 5.8 | 20.4 | 22.3363555 | 114.207288 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:09:05 | 4.2 | 24.7 | 22.33633033 | 114.2073025 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:11:28 | 5.6 | 16.1 | 22.32532417 | 114.2143153 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:11:29 | 5.2 | 21.3 | 22.32530517 | 114.2143082 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:12:44 | 5.7 | 14.7 | 22.3213845 | 114.214699 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:12:45 | 6.1 | 20.8 | 22.32137083 | 114.2147003 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:12:46 | 4.1 | 24.9 | 22.3213435 | 114.2147035 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:13:39 | 5.3 | 12.3 | 22.31787817 | 114.2151388 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:13:40 | 6.2 | 18.5 | 22.31786867 | 114.2151415 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:13:41 | 4.8 | 23.3 | 22.31784683 | 114.2151495 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:16:57 | 5.2 | 16 | 22.31382867 | 114.2229555 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:18:29 | 4 | 13.7 | 22.31307217 | 114.2249705 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:18:55 | 5 | 15.4 | 22.31261283 | 114.2261803 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:18:56 | 5.2 | 20.7 | 22.31261217 | 114.226201 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:19:31 | 5.2 | 19.1 | 22.31149517 | 114.226043 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:19:32 | 5.5 | 24.6 | 22.31147867 | 114.2260178 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:20:36 | 5.8 | 14.1 | 22.3099585 | 114.22416 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 20:35:03 | 2018-07-25 20:38:00 | 2018-07-25 21:21:06 | 4.5 | 14.1 | 22.309739 | 114.2238555 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:21 | 4.8 | 9.8 | 22.30854067 | 114.2220243 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:21 | 4.8 | 9.8 | 22.30854067 | 114.2220243 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:21 | 4.8 | 9.8 | 22.30854067 | 114.2220243 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:21 | 4.8 | 9.8 | 22.30854067 | 114.2220243 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:22 | 5.5 | 15.3 | 22.30854467 | 114.2220258 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:22 | 5.5 | 15.3 | 22.30854467 | 114.2220258 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:22 | 5.5 | 15.3 | 22.30854467 | 114.2220258 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:22 | 5.5 | 15.3 | 22.30854467 | 114.2220258 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:23 | 5.9 | 21.2 | 22.30855983 | 114.2220313 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:23 | 5.9 | 21.2 | 22.30855983 | 114.2220313 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:23 | 5.9 | 21.2 | 22.30855983 | 114.2220313 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:23 | 5.9 | 21.2 | 22.30855983 | 114.2220313 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:24 | 4.3 | 25.5 | 22.308588 | 114.2220398 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:24 | 4.3 | 25.5 | 22.308588 | 114.2220398 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:24 | 4.3 | 25.5 | 22.308588 | 114.2220398 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:36:24 | 4.3 | 25.5 | 22.308588 | 114.2220398 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:37:46 | 5.6 | 16.7 | 22.30827433 | 114.2255008 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:37:46 | 5.6 | 16.7 | 22.30827433 | 114.2255008 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:37:46 | 5.6 | 16.7 | 22.30827433 | 114.2255008 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:37:46 | 5.6 | 16.7 | 22.30827433 | 114.2255008 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:37:47 | 5.4 | 22.1 | 22.30828683 | 114.2255148 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:37:47 | 5.4 | 22.1 | 22.30828683 | 114.2255148 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:37:47 | 5.4 | 22.1 | 22.30828683 | 114.2255148 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:37:47 | 5.4 | 22.1 | 22.30828683 | 114.2255148 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:38:18 | 4.9 | 17.4 | 22.30914133 | 114.2269492 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:38:18 | 4.9 | 17.4 | 22.30914133 | 114.2269492 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:38:18 | 4.9 | 17.4 | 22.30914133 | 114.2269492 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:38:18 | 4.9 | 17.4 | 22.30914133 | 114.2269492 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:38:38 | 4.6 | 18.2 | 22.309143 | 114.2276085 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:38:38 | 4.6 | 18.2 | 22.309143 | 114.2276085 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:38:38 | 4.6 | 18.2 | 22.309143 | 114.2276085 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:38:38 | 4.6 | 18.2 | 22.309143 | 114.2276085 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:18 | 5.2 | 22.2 | 22.30894817 | 114.2284098 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:18 | 5.2 | 22.2 | 22.30894817 | 114.2284098 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:18 | 5.2 | 22.2 | 22.30894817 | 114.2284098 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:18 | 5.2 | 22.2 | 22.30894817 | 114.2284098 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:39 | 4.8 | 24.6 | 22.310302 | 114.2291622 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:39 | 4.8 | 24.6 | 22.310302 | 114.2291622 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:39 | 4.8 | 24.6 | 22.310302 | 114.2291622 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:39 | 4.8 | 24.6 | 22.310302 | 114.2291622 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:58 | 4.2 | 26.9 | 22.311016 | 114.227967 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:58 | 4.2 | 26.9 | 22.311016 | 114.227967 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:58 | 4.2 | 26.9 | 22.311016 | 114.227967 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:39:58 | 4.2 | 26.9 | 22.311016 | 114.227967 |
| 69496 | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:40:55 | 6.2 | 19.8 | 22.31176083 | 114.2266377 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:40:55 | 6.2 | 19.8 | 22.31176083 | 114.2266377 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:40:55 | 6.2 | 19.8 | 22.31176083 | 114.2266377 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:40:55 | 6.2 | 19.8 | 22.31176083 | 114.2266377 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:40:56 | 4.7 | 24.5 | 22.31176783 | 114.226611 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:40:56 | 4.7 | 24.5 | 22.31176783 | 114.226611 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:40:56 | 4.7 | 24.5 | 22.31176783 | 114.226611 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:40:56 | 4.7 | 24.5 | 22.31176783 | 114.226611 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:42:30 | 5.4 | 16.9 | 22.31299967 | 114.2239307 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:42:30 | 5.4 | 16.9 | 22.31299967 | 114.2239307 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:42:30 | 5.4 | 16.9 | 22.31299967 | 114.2239307 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:42:30 | 5.4 | 16.9 | 22.31299967 | 114.2239307 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:44:02 | 5.1 | 14.3 | 22.31405783 | 114.2211873 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:44:02 | 5.1 | 14.3 | 22.31405783 | 114.2211873 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:44:02 | 5.1 | 14.3 | 22.31405783 | 114.2211873 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:44:02 | 5.1 | 14.3 | 22.31405783 | 114.2211873 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:44:03 | 5.9 | 20.3 | 22.31406517 | 114.2211715 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:44:03 | 5.9 | 20.3 | 22.31406517 | 114.2211715 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:44:03 | 5.9 | 20.3 | 22.31406517 | 114.2211715 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:44:03 | 5.9 | 20.3 | 22.31406517 | 114.2211715 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:45:35 | 4.1 | 11.2 | 22.314928 | 114.219309 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:45:35 | 4.1 | 11.2 | 22.314928 | 114.219309 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:45:35 | 4.1 | 11.2 | 22.314928 | 114.219309 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:45:35 | 4.1 | 11.2 | 22.314928 | 114.219309 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:53 | 4.9 | 10.8 | 22.31520683 | 114.2185672 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:53 | 4.9 | 10.8 | 22.31520683 | 114.2185672 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:53 | 4.9 | 10.8 | 22.31520683 | 114.2185672 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:53 | 4.9 | 10.8 | 22.31520683 | 114.2185672 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:54 | 5.9 | 16.8 | 22.31520967 | 114.2185595 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:54 | 5.9 | 16.8 | 22.31520967 | 114.2185595 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:54 | 5.9 | 16.8 | 22.31520967 | 114.2185595 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:54 | 5.9 | 16.8 | 22.31520967 | 114.2185595 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:55 | 5.1 | 21.9 | 22.3152165 | 114.2185402 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:55 | 5.1 | 21.9 | 22.3152165 | 114.2185402 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:55 | 5.1 | 21.9 | 22.3152165 | 114.2185402 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:46:55 | 5.1 | 21.9 | 22.3152165 | 114.2185402 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:50:03 | 4.8 | 12.9 | 22.32214767 | 114.2143033 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:50:03 | 4.8 | 12.9 | 22.32214767 | 114.2143033 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:50:03 | 4.8 | 12.9 | 22.32214767 | 114.2143033 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:50:03 | 4.8 | 12.9 | 22.32214767 | 114.2143033 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:50:04 | 5.5 | 18.5 | 22.32215833 | 114.214303 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:50:04 | 5.5 | 18.5 | 22.32215833 | 114.214303 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:50:04 | 5.5 | 18.5 | 22.32215833 | 114.214303 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:50:04 | 5.5 | 18.5 | 22.32215833 | 114.214303 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:19 | 4.6 | 10.8 | 22.32559317 | 114.2139652 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:19 | 4.6 | 10.8 | 22.32559317 | 114.2139652 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:19 | 4.6 | 10.8 | 22.32559317 | 114.2139652 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:19 | 4.6 | 10.8 | 22.32559317 | 114.2139652 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:20 | 5.6 | 16.5 | 22.32559917 | 114.2139687 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:20 | 5.6 | 16.5 | 22.32559917 | 114.2139687 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:20 | 5.6 | 16.5 | 22.32559917 | 114.2139687 |
| 69496 | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:20 | 5.6 | 16.5 | 22.32559917 | 114.2139687 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:21 | 4.7 | 21.3 | 22.325619 | 114.2139705 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:21 | 4.7 | 21.3 | 22.325619 | 114.2139705 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:21 | 4.7 | 21.3 | 22.325619 | 114.2139705 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:51:21 | 4.7 | 21.3 | 22.325619 | 114.2139705 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:55:08 | 4.8 | 18.4 | 22.33663383 | 114.2067815 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:55:08 | 4.8 | 18.4 | 22.33663383 | 114.2067815 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:55:08 | 4.8 | 18.4 | 22.33663383 | 114.2067815 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:55:08 | 4.8 | 18.4 | 22.33663383 | 114.2067815 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:56:33 | 5 | 13.2 | 22.33918783 | 114.2024433 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:56:33 | 5 | 13.2 | 22.33918783 | 114.2024433 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:56:33 | 5 | 13.2 | 22.33918783 | 114.2024433 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:56:33 | 5 | 13.2 | 22.33918783 | 114.2024433 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:56:34 | 5 | 18.2 | 22.3391925 | 114.2024355 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:56:34 | 5 | 18.2 | 22.3391925 | 114.2024355 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:56:34 | 5 | 18.2 | 22.3391925 | 114.2024355 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:56:34 | 5 | 18.2 | 22.3391925 | 114.2024355 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:59:03 | 4.7 | 16 | 22.34162783 | 114.1942782 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:59:03 | 4.7 | 16 | 22.34162783 | 114.1942782 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:59:03 | 4.7 | 16 | 22.34162783 | 114.1942782 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:59:03 | 4.7 | 16 | 22.34162783 | 114.1942782 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:59:04 | 4.1 | 20.1 | 22.34162733 | 114.1942532 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:59:04 | 4.1 | 20.1 | 22.34162733 | 114.1942532 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:59:04 | 4.1 | 20.1 | 22.34162733 | 114.1942532 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 21:59:04 | 4.1 | 20.1 | 22.34162733 | 114.1942532 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:11:24 | 4.6 | 17.7 | 22.36901283 | 114.179398 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:11:24 | 4.6 | 17.7 | 22.36901283 | 114.179398 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:11:24 | 4.6 | 17.7 | 22.36901283 | 114.179398 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:11:24 | 4.6 | 17.7 | 22.36901283 | 114.179398 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:11:25 | 4 | 21.8 | 22.36900267 | 114.1793705 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:11:25 | 4 | 21.8 | 22.36900267 | 114.1793705 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:11:25 | 4 | 21.8 | 22.36900267 | 114.1793705 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:11:25 | 4 | 21.8 | 22.36900267 | 114.1793705 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:13:47 | 4.9 | 10.3 | 22.36750967 | 114.1764443 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:13:47 | 4.9 | 10.3 | 22.36750967 | 114.1764443 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:13:47 | 4.9 | 10.3 | 22.36750967 | 114.1764443 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:13:47 | 4.9 | 10.3 | 22.36750967 | 114.1764443 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:13:48 | 4.8 | 15.2 | 22.367507 | 114.1764372 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:13:48 | 4.8 | 15.2 | 22.367507 | 114.1764372 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:13:48 | 4.8 | 15.2 | 22.367507 | 114.1764372 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:13:48 | 4.8 | 15.2 | 22.367507 | 114.1764372 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:15:20 | 5.3 | 17.4 | 22.36546033 | 114.175368 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:15:20 | 5.3 | 17.4 | 22.36546033 | 114.175368 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:15:20 | 5.3 | 17.4 | 22.36546033 | 114.175368 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:15:20 | 5.3 | 17.4 | 22.36546033 | 114.175368 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:16:47 | 5.7 | 13.6 | 22.36288883 | 114.1724677 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:16:47 | 5.7 | 13.6 | 22.36288883 | 114.1724677 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:16:47 | 5.7 | 13.6 | 22.36288883 | 114.1724677 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:16:47 | 5.7 | 13.6 | 22.36288883 | 114.1724677 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:16:48 | 5.9 | 19.6 | 22.36288667 | 114.1724565 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:16:48 | 5.9 | 19.6 | 22.36288667 | 114.1724565 |
| 69496 | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:16:48 | 5.9 | 19.6 | 22.36288667 | 114.1724565 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:16:48 | 5.9 | 19.6 | 22.36288667 | 114.1724565 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:17:15 | 4.1 | 23.2 | 22.3636065 | 114.1712802 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:17:15 | 4.1 | 23.2 | 22.3636065 | 114.1712802 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:17:15 | 4.1 | 23.2 | 22.3636065 | 114.1712802 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:17:15 | 4.1 | 23.2 | 22.3636065 | 114.1712802 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:00 | 6 | 15.5 | 22.36556533 | 114.1730112 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:00 | 6 | 15.5 | 22.36556533 | 114.1730112 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:00 | 6 | 15.5 | 22.36556533 | 114.1730112 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:00 | 6 | 15.5 | 22.36556533 | 114.1730112 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:01 | 4.6 | 20.2 | 22.3655745 | 114.173024 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:01 | 4.6 | 20.2 | 22.3655745 | 114.173024 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:01 | 4.6 | 20.2 | 22.3655745 | 114.173024 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:01 | 4.6 | 20.2 | 22.3655745 | 114.173024 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:45 | 5.7 | 13.6 | 22.36738733 | 114.1742312 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:45 | 5.7 | 13.6 | 22.36738733 | 114.1742312 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:45 | 5.7 | 13.6 | 22.36738733 | 114.1742312 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:45 | 5.7 | 13.6 | 22.36738733 | 114.1742312 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:45 | 5.7 | 13.6 | 22.36738733 | 114.1742312 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:46 | 5.6 | 19.2 | 22.36739817 | 114.1742363 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:46 | 5.6 | 19.2 | 22.36739817 | 114.1742363 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:46 | 5.6 | 19.2 | 22.36739817 | 114.1742363 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:18:46 | 5.6 | 19.2 | 22.36739817 | 114.1742363 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:46 | 6.3 | 14.6 | 22.36893367 | 114.175163 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:46 | 6.3 | 14.6 | 22.36893367 | 114.175163 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:46 | 6.3 | 14.6 | 22.36893367 | 114.175163 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:46 | 6.3 | 14.6 | 22.36893367 | 114.175163 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:47 | 5.7 | 20.4 | 22.36894267 | 114.175172 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:47 | 5.7 | 20.4 | 22.36894267 | 114.175172 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:47 | 5.7 | 20.4 | 22.36894267 | 114.175172 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:47 | 5.7 | 20.4 | 22.36894267 | 114.175172 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:48 | 4.4 | 24.8 | 22.36896167 | 114.1751905 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:48 | 4.4 | 24.8 | 22.36896167 | 114.1751905 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:48 | 4.4 | 24.8 | 22.36896167 | 114.1751905 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:19:48 | 4.4 | 24.8 | 22.36896167 | 114.1751905 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:30 | 4.8 | 11.1 | 22.37265983 | 114.1776437 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:30 | 4.8 | 11.1 | 22.37265983 | 114.1776437 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:30 | 4.8 | 11.1 | 22.37265983 | 114.1776437 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:30 | 4.8 | 11.1 | 22.37265983 | 114.1776437 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:31 | 5.7 | 16.8 | 22.37266633 | 114.1776425 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:31 | 5.7 | 16.8 | 22.37266633 | 114.1776425 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:31 | 5.7 | 16.8 | 22.37266633 | 114.1776425 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:31 | 5.7 | 16.8 | 22.37266633 | 114.1776425 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:32 | 4.6 | 21.5 | 22.372682 | 114.17763 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:32 | 4.6 | 21.5 | 22.372682 | 114.17763 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:32 | 4.6 | 21.5 | 22.372682 | 114.17763 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:21:32 | 4.6 | 21.5 | 22.372682 | 114.17763 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:22:04 | 4.9 | 19.4 | 22.37330333 | 114.1771265 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:22:04 | 4.9 | 19.4 | 22.37330333 | 114.1771265 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:22:04 | 4.9 | 19.4 | 22.37330333 | 114.1771265 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:22:04 | 4.9 | 19.4 | 22.37330333 | 114.1771265 |
| 69496 | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:23:14 | 5.1 | 13.9 | 22.37404483 | 114.1766582 | |
| 69496 | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:23:14 | 5.1 | 13.9 | 22.37404483 | 114.1766582 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:23:14 | 5.1 | 13.9 | 22.37404483 | 114.1766582 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:23:14 | 5.1 | 13.9 | 22.37404483 | 114.1766582 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:23:58 | 4.2 | 15.3 | 22.3748 | 114.1776292 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:23:58 | 4.2 | 15.3 | 22.3748 | 114.1776292 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:23:58 | 4.2 | 15.3 | 22.3748 | 114.1776292 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:23:58 | 4.2 | 15.3 | 22.3748 | 114.1776292 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:26:17 | 5.6 | 13.9 | 22.3757565 | 114.1759032 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:26:17 | 5.6 | 13.9 | 22.3757565 | 114.1759032 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:26:17 | 5.6 | 13.9 | 22.3757565 | 114.1759032 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:26:17 | 5.6 | 13.9 | 22.3757565 | 114.1759032 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:26:18 | 4.8 | 18.7 | 22.37574783 | 114.1758915 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:26:18 | 4.8 | 18.7 | 22.37574783 | 114.1758915 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:26:18 | 4.8 | 18.7 | 22.37574783 | 114.1758915 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:26:18 | 4.8 | 18.7 | 22.37574783 | 114.1758915 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:26:18 | 4.8 | 18.7 | 22.37574783 | 114.1758915 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:27:25 | 5 | 10.9 | 22.37714733 | 114.1739495 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:27:25 | 5 | 10.9 | 22.37714733 | 114.1739495 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:27:25 | 5 | 10.9 | 22.37714733 | 114.1739495 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:27:25 | 5 | 10.9 | 22.37714733 | 114.1739495 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:27:25 | 5 | 10.9 | 22.37714733 | 114.1739495 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:27:26 | 5.9 | 16.8 | 22.37715367 | 114.1739478 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:27:26 | 5.9 | 16.8 | 22.37715367 | 114.1739478 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:27:26 | 5.9 | 16.8 | 22.37715367 | 114.1739478 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:27:26 | 5.9 | 16.8 | 22.37715367 | 114.1739478 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:11 | 4.6 | 10.2 | 22.37729683 | 114.172999 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:11 | 4.6 | 10.2 | 22.37729683 | 114.172999 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:11 | 4.6 | 10.2 | 22.37729683 | 114.172999 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:11 | 4.6 | 10.2 | 22.37729683 | 114.172999 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:12 | 6.1 | 16.3 | 22.37729383 | 114.1729962 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:12 | 6.1 | 16.3 | 22.37729383 | 114.1729962 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:12 | 6.1 | 16.3 | 22.37729383 | 114.1729962 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:12 | 6.1 | 16.3 | 22.37729383 | 114.1729962 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:55 | 4.1 | 20.6 | 22.37623467 | 114.170361 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:55 | 4.1 | 20.6 | 22.37623467 | 114.170361 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:55 | 4.1 | 20.6 | 22.37623467 | 114.170361 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:28:55 | 4.1 | 20.6 | 22.37623467 | 114.170361 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:30:22 | 4.5 | 22.8 | 22.37698167 | 114.1708223 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:30:22 | 4.5 | 22.8 | 22.37698167 | 114.1708223 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:30:22 | 4.5 | 22.8 | 22.37698167 | 114.1708223 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:30:22 | 4.5 | 22.8 | 22.37698167 | 114.1708223 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:30:58 | 5.4 | 23.2 | 22.37758167 | 114.1735963 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:30:58 | 5.4 | 23.2 | 22.37758167 | 114.1735963 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:30:58 | 5.4 | 23.2 | 22.37758167 | 114.1735963 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 21:33:55 | 2018-07-25 21:36:00 | 2018-07-25 22:30:58 | 5.4 | 23.2 | 22.37758167 | 114.1735963 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:32:25 | 4.5 | 11.9 | 22.37786567 | 114.1749125 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:32:25 | 4.5 | 11.9 | 22.37786567 | 114.1749125 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:32:25 | 4.5 | 11.9 | 22.37786567 | 114.1749125 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:32:25 | 4.5 | 11.9 | 22.37786567 | 114.1749125 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:23 | 5.6 | 13.2 | 22.37783633 | 114.1747572 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:23 | 5.6 | 13.2 | 22.37783633 | 114.1747572 |
| 69496 | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:23 | 5.6 | 13.2 | 22.37783633 | 114.1747572 | |
| 69496 | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:23 | 5.6 | 13.2 | 22.37783633 | 114.1747572 | |
| 69496 | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:53 | 6.2 | 14.2 | 22.37682033 | 114.1750315 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:53 | 6.2 | 14.2 | 22.37682033 | 114.1750315 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:53 | 6.2 | 14.2 | 22.37682033 | 114.1750315 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:53 | 6.2 | 14.2 | 22.37682033 | 114.1750315 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:54 | 6.4 | 20.6 | 22.37681 | 114.1750377 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:54 | 6.4 | 20.6 | 22.37681 | 114.1750377 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:54 | 6.4 | 20.6 | 22.37681 | 114.1750377 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:54 | 6.4 | 20.6 | 22.37681 | 114.1750377 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:55 | 4.3 | 24.9 | 22.376787 | 114.175051 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:55 | 4.3 | 24.9 | 22.376787 | 114.175051 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:33:55 | 4.3 | 24.9 | 22.376787 | 114.175051 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:34:37 | 6 | 16.8 | 22.37581367 | 114.1756283 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:34:37 | 6 | 16.8 | 22.37581367 | 114.1756283 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:34:37 | 6 | 16.8 | 22.37581367 | 114.1756283 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:34:37 | 6 | 16.8 | 22.37581367 | 114.1756283 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:34:38 | 4.9 | 21.8 | 22.37579817 | 114.1756388 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:34:38 | 4.9 | 21.8 | 22.37579817 | 114.1756388 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:34:38 | 4.9 | 21.8 | 22.37579817 | 114.1756388 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:34:38 | 4.9 | 21.8 | 22.37579817 | 114.1756388 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:37 | 6.5 | 14.6 | 22.3717945 | 114.178632 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:37 | 6.5 | 14.6 | 22.3717945 | 114.178632 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:37 | 6.5 | 14.6 | 22.3717945 | 114.178632 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:37 | 6.5 | 14.6 | 22.3717945 | 114.178632 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:38 | 6.2 | 20.9 | 22.37178817 | 114.1786423 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:38 | 6.2 | 20.9 | 22.37178817 | 114.1786423 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:38 | 6.2 | 20.9 | 22.37178817 | 114.1786423 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:38 | 6.2 | 20.9 | 22.37178817 | 114.1786423 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:39 | 4.6 | 25.6 | 22.37177367 | 114.1786673 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:39 | 4.6 | 25.6 | 22.37177367 | 114.1786673 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:39 | 4.6 | 25.6 | 22.37177367 | 114.1786673 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:35:39 | 4.6 | 25.6 | 22.37177367 | 114.1786673 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:36:31 | 6.5 | 15.9 | 22.36957467 | 114.1802777 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:36:31 | 6.5 | 15.9 | 22.36957467 | 114.1802777 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:36:31 | 6.5 | 15.9 | 22.36957467 | 114.1802777 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:36:32 | 4.5 | 20.4 | 22.369561 | 114.1802852 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:36:32 | 4.5 | 20.4 | 22.369561 | 114.1802852 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:36:32 | 4.5 | 20.4 | 22.369561 | 114.1802852 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:39 | 5.5 | 12.9 | 22.31666883 | 114.214268 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:39 | 5.5 | 12.9 | 22.31666883 | 114.214268 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:39 | 5.5 | 12.9 | 22.31666883 | 114.214268 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:39 | 5.5 | 12.9 | 22.31666883 | 114.214268 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:40 | 6.3 | 19.3 | 22.31666267 | 114.2142752 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:40 | 6.3 | 19.3 | 22.31666267 | 114.2142752 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:40 | 6.3 | 19.3 | 22.31666267 | 114.2142752 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:40 | 6.3 | 19.3 | 22.31666267 | 114.2142752 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:41 | 4.8 | 24.1 | 22.316647 | 114.2142933 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:41 | 4.8 | 24.1 | 22.316647 | 114.2142933 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:41 | 4.8 | 24.1 | 22.316647 | 114.2142933 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:41 | 4.8 | 24.1 | 22.316647 | 114.2142933 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:42 | 4.2 | 28.4 | 22.3166215 | 114.2143223 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:42 | 4.2 | 28.4 | 22.3166215 | 114.2143223 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:42 | 4.2 | 28.4 | 22.3166215 | 114.2143223 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:47:42 | 4.2 | 28.4 | 22.3166215 | 114.2143223 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:48 | 5.2 | 12.9 | 22.30898033 | 114.2221475 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:48 | 5.2 | 12.9 | 22.30898033 | 114.2221475 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:48 | 5.2 | 12.9 | 22.30898033 | 114.2221475 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:48 | 5.2 | 12.9 | 22.30898033 | 114.2221475 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:49 | 5.8 | 18.8 | 22.30897067 | 114.2221548 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:49 | 5.8 | 18.8 | 22.30897067 | 114.2221548 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:49 | 5.8 | 18.8 | 22.30897067 | 114.2221548 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:49 | 5.8 | 18.8 | 22.30897067 | 114.2221548 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:50 | 5 | 23.9 | 22.3089655 | 114.2221858 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:50 | 5 | 23.9 | 22.3089655 | 114.2221858 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:50 | 5 | 23.9 | 22.3089655 | 114.2221858 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:50 | 5 | 23.9 | 22.3089655 | 114.2221858 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:51 | 4.1 | 28 | 22.30896383 | 114.2222377 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:51 | 4.1 | 28 | 22.30896383 | 114.2222377 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:51 | 4.1 | 28 | 22.30896383 | 114.2222377 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | MEILAM | 2018-07-25 21:33:55 | 2018-07-25 22:32:00 | 2018-07-25 22:49:51 | 4.1 | 28 | 22.30896383 | 114.2222377 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:10:55 | 4.9 | 10.8 | 22.308941 | 114.222305 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:12:02 | 5 | 15.3 | 22.3079195 | 114.2253352 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:12:17 | 5.1 | 12 | 22.30807333 | 114.2255418 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:12:18 | 6 | 18 | 22.30807967 | 114.2255482 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:12:19 | 4.9 | 23 | 22.3080915 | 114.2255667 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:13:49 | 5 | 10.9 | 22.30879433 | 114.2277543 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:13:50 | 5.4 | 16.3 | 22.30878883 | 114.2277605 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:13:57 | 6.3 | 23.2 | 22.30860483 | 114.227969 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:14:18 | 4.6 | 10.9 | 22.30902667 | 114.2283745 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:14:19 | 5.8 | 16.8 | 22.309034 | 114.2283812 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:14:20 | 6 | 22.8 | 22.30904883 | 114.228396 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:15:31 | 5.8 | 19.1 | 22.31188933 | 114.2266132 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:15:32 | 4.7 | 23.9 | 22.3118975 | 114.2265865 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:17:58 | 5.5 | 16 | 22.3143325 | 114.2212402 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:17:59 | 5.3 | 21.4 | 22.314341 | 114.2212225 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:19:46 | 5.2 | 12.3 | 22.32018267 | 114.2144178 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:19:47 | 5.8 | 18.1 | 22.3201935 | 114.2144247 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:19:48 | 4.6 | 22.8 | 22.32021517 | 114.2144423 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:20:16 | 4.8 | 12 | 22.321562 | 114.2143443 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:22:08 | 4.3 | 11 | 22.325486 | 114.213975 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:22:34 | 4.8 | 11.5 | 22.3255955 | 114.2139575 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:22:35 | 5.5 | 17.1 | 22.32560533 | 114.2139572 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:22:36 | 5.1 | 22.2 | 22.32562667 | 114.2139578 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:23:38 | 5.6 | 17.9 | 22.32881917 | 114.211807 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:23:39 | 4.5 | 22.4 | 22.32883683 | 114.2117913 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:26:15 | 4.3 | 10.9 | 22.336643 | 114.2068007 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:27:57 | 5.3 | 17.5 | 22.33920167 | 114.2024585 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:27:58 | 4 | 21.5 | 22.33921783 | 114.2024423 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:29:47 | 4.7 | 15.8 | 22.34161717 | 114.1942652 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:30:28 | 4.2 | 8.9 | 22.3415775 | 114.1918055 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:30:29 | 5.2 | 14.2 | 22.3415775 | 114.1918008 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:30:30 | 4.2 | 18.4 | 22.34157567 | 114.1917852 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:30:51 | 5.4 | 17.9 | 22.34156267 | 114.1915012 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:31:46 | 4.8 | 17.5 | 22.34236767 | 114.1883423 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:38:44 | 5.6 | 16.7 | 22.36851417 | 114.1781928 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:38:45 | 4.7 | 21.4 | 22.36850683 | 114.1781718 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:39:19 | 4.6 | 12.6 | 22.36754433 | 114.1765277 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:40:55 | 5.6 | 13.4 | 22.36647683 | 114.1765643 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:41:42 | 5.5 | 14.6 | 22.3654525 | 114.1753712 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:42:59 | 5.5 | 13.7 | 22.362884 | 114.172457 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:43:00 | 4.7 | 18.5 | 22.3628805 | 114.1724357 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:43:27 | 5.6 | 14.3 | 22.363371 | 114.1713572 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:43:35 | 5 | 24.4 | 22.36361317 | 114.1712898 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:44:31 | 5.6 | 13.7 | 22.367495 | 114.174288 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:44:32 | 6.1 | 19.9 | 22.367506 | 114.1742933 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:45:02 | 6.1 | 15.7 | 22.36884867 | 114.1750517 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:45:03 | 5.7 | 21.5 | 22.36886 | 114.1750622 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:46:23 | 4.9 | 12.8 | 22.37327417 | 114.177125 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:46:24 | 4.4 | 17.3 | 22.37328617 | 114.1771183 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:46:25 | 4 | 21.4 | 22.37330967 | 114.1771068 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:47:16 | 6.1 | 13.6 | 22.374062 | 114.1767028 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:48:33 | 5.9 | 15.1 | 22.37545117 | 114.177586 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:48:34 | 5.4 | 20.6 | 22.37546233 | 114.177576 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:49:54 | 5 | 14.9 | 22.3771745 | 114.1739625 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:50:37 | 5.6 | 20.4 | 22.3772805 | 114.1729867 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:52:27 | 4.3 | 14.3 | 22.377132 | 114.1708275 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:52:28 | 5.2 | 19.6 | 22.37713567 | 114.1708332 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:52:29 | 4.6 | 24.2 | 22.37716233 | 114.1708567 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:53:24 | 6.4 | 17.9 | 22.37780783 | 114.1736423 |
| 69496 | | STD | 2018-07-25 | 80 | UV7724 | 80 | KT.FRY | 2018-07-25 23:08:20 | 2018-07-25 23:10:00 | 2018-07-25 23:53:25 | 5.8 | 23.8 | 22.3778025 | 114.173663 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:20:40 | 4.8 | 13.3 | 22.37774133 | 114.1747678 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:22:06 | 5 | 14.4 | 22.37684583 | 114.175059 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:22:14 | 4.1 | 23.6 | 22.37661267 | 114.1750582 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:24:34 | 4.7 | 22 | 22.3766195 | 114.1709587 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:24:57 | 5.3 | 11 | 22.376947 | 114.1716825 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:24:58 | 5.7 | 16.7 | 22.37694817 | 114.1716882 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:24:59 | 5.1 | 21.9 | 22.37695233 | 114.1717053 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:25:40 | 5.3 | 19.4 | 22.37753333 | 114.1735948 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:25:41 | 4 | 23.4 | 22.37753817 | 114.1736208 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:26:26 | 5 | 12.3 | 22.37588417 | 114.1755137 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:26:27 | 4.6 | 16.9 | 22.3758775 | 114.1755185 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:27:36 | 4.9 | 13.6 | 22.37379817 | 114.176924 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:27:37 | 5.5 | 19.2 | 22.37378217 | 114.1769195 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:27:56 | 5.6 | 14.8 | 22.37313333 | 114.1773355 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:27:57 | 4.7 | 19.5 | 22.37312483 | 114.1773448 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:28:30 | 4.1 | 8.9 | 22.3717895 | 114.1783893 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:29:21 | 5 | 13.5 | 22.37087033 | 114.17791 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:29:22 | 4.6 | 18.2 | 22.37086233 | 114.1779035 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:29:37 | 5.3 | 13.8 | 22.3707145 | 114.1777267 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:29:38 | 5.3 | 19.1 | 22.3707085 | 114.1777167 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:30:12 | 4.8 | 13.6 | 22.369223 | 114.1755632 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:30:13 | 4.7 | 18.3 | 22.369213 | 114.1755533 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:30:47 | 4.7 | 19.5 | 22.368601 | 114.1750897 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:31:15 | 5.3 | 13.4 | 22.36802133 | 114.1746778 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:31:16 | 4.7 | 18.1 | 22.36801483 | 114.17467 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:32:43 | 4.4 | 9.8 | 22.36416067 | 114.1719348 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:32:44 | 5.2 | 15.1 | 22.36415967 | 114.1719342 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:32:45 | 5.3 | 20.5 | 22.36415033 | 114.1719243 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:33:33 | 4.2 | 19.1 | 22.36332117 | 114.173001 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:34:16 | 5.7 | 14.5 | 22.36385067 | 114.1737843 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:34:17 | 4.9 | 19.5 | 22.363863 | 114.173798 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:35:14 | 4.9 | 10.8 | 22.365422 | 114.1751647 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:35:15 | 5 | 15.8 | 22.36542533 | 114.1751678 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:35:43 | 5.3 | 13.2 | 22.3662205 | 114.176072 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:35:44 | 4.9 | 18.2 | 22.36622433 | 114.1760827 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:36:58 | 4.9 | 9.3 | 22.36678983 | 114.1764208 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:36:59 | 6 | 15.3 | 22.36679133 | 114.17642 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:37:00 | 4 | 19.3 | 22.36680217 | 114.1764153 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:37:01 | 4.1 | 23.5 | 22.3668245 | 114.176407 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:38:26 | 4.6 | 9.5 | 22.36873133 | 114.1784955 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:38:27 | 5.7 | 15.2 | 22.3687325 | 114.1784982 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:38:28 | 5.5 | 20.8 | 22.36873833 | 114.1785117 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:39:14 | 4.3 | 8.9 | 22.36905533 | 114.1791792 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:39:15 | 4.8 | 13.7 | 22.36905533 | 114.1791795 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:39:16 | 5 | 18.7 | 22.36905833 | 114.1791918 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:40:01 | 4.6 | 10.8 | 22.3693745 | 114.1801272 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:40:02 | 5.3 | 16.2 | 22.36937717 | 114.1801337 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:40:03 | 4 | 20.2 | 22.36938433 | 114.1801503 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:47:15 | 5.1 | 11.5 | 22.34183233 | 114.1916922 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:47:16 | 5.1 | 16.6 | 22.34183167 | 114.1916988 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:47:17 | 4.2 | 20.9 | 22.341832 | 114.191718 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:48:16 | 4 | 7.7 | 22.3418365 | 114.1952073 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:48:18 | 5.1 | 17.4 | 22.34183717 | 114.1952237 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:48:46 | 4.7 | 10.4 | 22.3418445 | 114.1956042 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:48:47 | 5 | 15.5 | 22.3418435 | 114.1956113 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:48:48 | 5 | 20.5 | 22.34184167 | 114.1956308 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:50:17 | 5.1 | 13.7 | 22.33956233 | 114.2027307 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:50:18 | 4.6 | 18.4 | 22.339552 | 114.202741 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:51:36 | 4.7 | 20.5 | 22.33678033 | 114.2070387 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:51:37 | 4 | 24.6 | 22.33675533 | 114.207061 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:54:21 | 5.2 | 16 | 22.325343 | 114.2143225 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:54:22 | 4.5 | 20.6 | 22.32532517 | 114.2143115 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:55:28 | 4.9 | 8.4 | 22.321165 | 114.2146452 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:55:29 | 5.2 | 13.6 | 22.32116317 | 114.2146452 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:55:30 | 5.6 | 19.2 | 22.321152 | 114.2146452 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:55:31 | 4.4 | 23.7 | 22.3211285 | 114.214645 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:56:26 | 6 | 18.7 | 22.31748083 | 114.2152702 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:56:27 | 4 | 22.8 | 22.31746183 | 114.2152803 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:57:52 | 5 | 12.6 | 22.314472 | 114.2210697 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:57:53 | 5.3 | 18 | 22.31446833 | 114.2210785 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:57:54 | 4.4 | 22.5 | 22.3144595 | 114.2210993 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:58:34 | 4.9 | 11.2 | 22.31376483 | 114.2230973 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:58:35 | 5.3 | 16.5 | 22.31377267 | 114.2231085 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:58:36 | 4.9 | 21.5 | 22.31377733 | 114.2231318 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:59:20 | 4.8 | 8.6 | 22.31306533 | 114.2249103 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:59:21 | 5.1 | 13.7 | 22.31301967 | 114.2248937 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 12:59:58 | 4 | 11.5 | 22.31264617 | 114.2259802 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 13:00:00 | 4.8 | 20.4 | 22.31264267 | 114.2260112 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 13:03:54 | 5 | 10.3 | 22.307096 | 114.2219888 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 12:18:00 | 2018-07-26 12:20:00 | 2018-07-26 13:03:56 | 4.9 | 21.2 | 22.30711617 | 114.2219703 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:26:29 | 4.4 | 22.8 | 22.308616 | 114.2220427 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:27:24 | 5.3 | 13.1 | 22.3078975 | 114.2231435 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:29:17 | 5.7 | 14 | 22.30883667 | 114.2283585 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:29:40 | 4.5 | 22.7 | 22.30915633 | 114.2284845 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:31:36 | 6.1 | 11.6 | 22.311948 | 114.2267697 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:31:37 | 5.7 | 17.3 | 22.31194967 | 114.226768 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:31:38 | 5 | 22.4 | 22.3119565 | 114.2267525 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:33:34 | 4.4 | 8.3 | 22.3142035 | 114.2213345 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:33:35 | 5.5 | 13.8 | 22.314202 | 114.2213312 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:33:36 | 5.8 | 19.7 | 22.3142055 | 114.2213195 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:34:45 | 5.3 | 12.3 | 22.31514967 | 114.2189357 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:35:28 | 5.3 | 11 | 22.316561 | 114.2158527 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:35:29 | 5.8 | 16.8 | 22.31656767 | 114.2158488 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:35:30 | 4.7 | 21.6 | 22.31657967 | 114.2158362 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:36:11 | 4.7 | 20.8 | 22.31967717 | 114.2146553 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:36:43 | 5.5 | 13.5 | 22.32181917 | 114.2143708 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:36:44 | 4.6 | 18.1 | 22.32183267 | 114.214371 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:36:45 | 4.2 | 22.4 | 22.32185683 | 114.2143747 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:37:05 | 5.3 | 15.8 | 22.322168 | 114.21435 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:37:06 | 4.7 | 20.5 | 22.322183 | 114.214347 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:38:07 | 4.5 | 11.7 | 22.32513833 | 114.2140848 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:38:51 | 5.1 | 12.6 | 22.325585 | 114.213955 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:38:52 | 5.7 | 18.4 | 22.325592 | 114.2139558 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:38:53 | 4.4 | 22.8 | 22.32561367 | 114.2139565 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:42:02 | 4.4 | 9.8 | 22.3366525 | 114.2067755 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:43:39 | 4 | 16.1 | 22.33923267 | 114.2024348 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:45:27 | 4.2 | 7.7 | 22.3416195 | 114.1942832 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:45:28 | 4.9 | 12.7 | 22.3416195 | 114.1942733 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:45:29 | 5.5 | 18.2 | 22.34161933 | 114.1942588 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:47:15 | 5.2 | 14.8 | 22.34233233 | 114.1883352 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:47:16 | 4.5 | 19.3 | 22.342334 | 114.1883188 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:53:02 | 5.2 | 10.7 | 22.36555667 | 114.1806567 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:53:03 | 4.8 | 15.6 | 22.36556133 | 114.1806565 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:53:04 | 4.7 | 20.3 | 22.3655775 | 114.1806537 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:53:05 | 4.1 | 24.4 | 22.36560683 | 114.1806488 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:54:33 | 4.8 | 9.4 | 22.3689085 | 114.1791137 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:54:34 | 4.7 | 14.1 | 22.36890383 | 114.1791055 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:55:19 | 5.3 | 16.8 | 22.36852433 | 114.1781948 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:55:20 | 4.4 | 21.2 | 22.368517 | 114.1781768 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:56:50 | 4.8 | 10.3 | 22.36749033 | 114.1764922 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:58:10 | 5.1 | 8.8 | 22.36555367 | 114.1755283 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:58:11 | 4.2 | 13.1 | 22.36555233 | 114.1755267 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:58:12 | 4.9 | 18 | 22.36554283 | 114.1755182 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:58:13 | 4.4 | 22.4 | 22.365525 | 114.1754995 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:59:33 | 5.1 | 15.5 | 22.36295083 | 114.1725855 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 13:59:34 | 5.2 | 20.8 | 22.362946 | 114.1725667 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:00:28 | 4.4 | 6.9 | 22.363338 | 114.1714633 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:00:31 | 4.4 | 18.7 | 22.36335767 | 114.1714357 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:02:09 | 4.2 | 13.5 | 22.3673685 | 114.1742287 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:03:15 | 4.9 | 8.5 | 22.368963 | 114.1752168 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:03:16 | 5.5 | 14.1 | 22.36896367 | 114.1752172 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:03:17 | 5.9 | 20 | 22.36897133 | 114.1752245 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:03:18 | 4.1 | 24.1 | 22.36898867 | 114.1752413 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:04:20 | 5.4 | 14.8 | 22.37250483 | 114.1778088 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:04:53 | 5.1 | 12.7 | 22.37324067 | 114.1771122 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:04:54 | 5.6 | 18.3 | 22.37324833 | 114.177106 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:05:58 | 5 | 13.3 | 22.37402883 | 114.1766637 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:06:19 | 4.3 | 26.6 | 22.37465317 | 114.1774503 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:07:47 | 5.1 | 12.4 | 22.37612833 | 114.1770605 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:09:06 | 6.1 | 13.8 | 22.37573383 | 114.1760863 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:09:07 | 6.2 | 20.1 | 22.37572883 | 114.1760807 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:10:10 | 5.8 | 13.4 | 22.37708833 | 114.1739917 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:10:11 | 4.3 | 17.8 | 22.37709667 | 114.173989 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:10:49 | 5 | 14.2 | 22.377329 | 114.1731598 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 13:23:41 | 2018-07-26 13:26:00 | 2018-07-26 14:10:50 | 5.1 | 19.4 | 22.37732517 | 114.1731457 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:38:41 | 5 | 10.6 | 22.3778005 | 114.1748102 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:38:42 | 5.4 | 16.1 | 22.37780183 | 114.1748045 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:38:43 | 4.1 | 20.3 | 22.377805 | 114.1747912 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:40:09 | 4.5 | 21.5 | 22.37668933 | 114.1750875 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:42:14 | 4.9 | 11.8 | 22.37610917 | 114.170827 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:42:37 | 4.9 | 16 | 22.3764985 | 114.1710243 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:42:38 | 4.6 | 20.6 | 22.37651867 | 114.1710258 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:43:39 | 5.3 | 11.3 | 22.37744333 | 114.1736838 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:43:40 | 5.7 | 17.1 | 22.37744717 | 114.1736875 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:43:41 | 5 | 22.1 | 22.37745217 | 114.1737043 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:44:26 | 4.9 | 10.7 | 22.37589033 | 114.175596 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:44:27 | 5.1 | 15.8 | 22.375885 | 114.175599 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:45:29 | 5.2 | 13.7 | 22.37382617 | 114.1770105 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:45:30 | 6.1 | 19.9 | 22.37381767 | 114.1770168 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:45:56 | 5.6 | 14.4 | 22.37309633 | 114.1775387 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:45:57 | 6.1 | 20.5 | 22.373087 | 114.1775465 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:47:02 | 5.2 | 12.7 | 22.3707365 | 114.1779343 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:47:03 | 5.8 | 18.6 | 22.3707345 | 114.177924 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:47:04 | 4 | 22.6 | 22.37072883 | 114.1779003 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:47:57 | 5.1 | 12.7 | 22.368597 | 114.1751648 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:47:58 | 5.4 | 18.2 | 22.368591 | 114.1751562 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:47:59 | 4.2 | 22.5 | 22.36857517 | 114.1751402 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:48:50 | 4.3 | 8.8 | 22.3653445 | 114.1730095 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:48:51 | 5.4 | 14.3 | 22.36534217 | 114.173005 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:49:26 | 5.6 | 17 | 22.36417917 | 114.1719542 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:49:27 | 4.3 | 21.4 | 22.364166 | 114.1719412 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:50:36 | 6.4 | 13 | 22.3636495 | 114.1714365 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:51:37 | 5.4 | 11 | 22.36385117 | 114.1738197 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:51:38 | 5.8 | 16.9 | 22.3638545 | 114.1738222 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:51:39 | 5.1 | 22 | 22.36386767 | 114.1738343 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:52:18 | 5.3 | 11.6 | 22.365412 | 114.1752192 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:52:19 | 5.9 | 17.6 | 22.36541683 | 114.1752243 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:52:20 | 5 | 22.6 | 22.36542967 | 114.175239 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:53:11 | 5.7 | 14.6 | 22.3662385 | 114.1761877 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:53:12 | 6.1 | 20.7 | 22.36624317 | 114.1761997 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:54:23 | 5.3 | 11.9 | 22.36700367 | 114.176305 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:54:24 | 4.5 | 16.5 | 22.36700883 | 114.176302 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:55:46 | 5 | 8.9 | 22.36874183 | 114.1784807 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:55:47 | 5.6 | 14.6 | 22.3687425 | 114.1784848 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:55:48 | 6 | 20.6 | 22.36874667 | 114.178497 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 14:56:39 | 4.4 | 22 | 22.36907333 | 114.1793217 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:04:16 | 4.2 | 8.7 | 22.34180933 | 114.191692 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:04:17 | 5.2 | 14 | 22.34181 | 114.1916962 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:04:18 | 4.5 | 18.6 | 22.34181067 | 114.1917098 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:04:19 | 4.9 | 23.5 | 22.341802 | 114.1917365 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:04:38 | 4.9 | 9.7 | 22.34180483 | 114.1922858 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:04:39 | 5.5 | 15.3 | 22.34180517 | 114.1922903 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:04:40 | 5.4 | 20.7 | 22.3418005 | 114.1923058 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:05:35 | 4.9 | 11.1 | 22.3417725 | 114.1955703 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:05:36 | 5.5 | 16.7 | 22.34177267 | 114.1955785 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:05:37 | 4.7 | 21.4 | 22.34177183 | 114.1955992 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:07:01 | 4.9 | 17.8 | 22.33951533 | 114.2027167 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:12:29 | 5.5 | 13.5 | 22.32538 | 114.2142833 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:12:30 | 6 | 19.5 | 22.32536867 | 114.2142753 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:14:05 | 4.9 | 9.6 | 22.31750783 | 114.2152872 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:14:06 | 5 | 14.6 | 22.31750533 | 114.2152887 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:14:07 | 5.1 | 19.7 | 22.31749383 | 114.2152955 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:14:45 | 4.3 | 21.6 | 22.31577717 | 114.2179057 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:18:24 | 5.1 | 10.5 | 22.313665 | 114.2230415 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:20:54 | 5 | 10.5 | 22.31300817 | 114.2249287 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:20:56 | 4.3 | 19.7 | 22.31299783 | 114.2249472 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:22:21 | 5 | 18.1 | 22.31253367 | 114.2260995 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:22:22 | 4 | 22.2 | 22.3125275 | 114.2261252 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:25:36 | 5.1 | 11.6 | 22.31072467 | 114.2252613 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:25:37 | 5.5 | 17.1 | 22.31072217 | 114.2252538 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:28:09 | 4.8 | 13.7 | 22.3070385 | 114.2220825 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:28:10 | 5.8 | 19.6 | 22.30704817 | 114.2220675 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | MEILAM | 2018-07-26 14:36:18 | 2018-07-26 14:38:00 | 2018-07-26 15:28:11 | 4 | 23.6 | 22.3070715 | 114.2220367 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 15:57:23 | 4.4 | 20.1 | 22.30872783 | 114.2220985 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:00:01 | 5 | 13.1 | 22.30802283 | 114.2255983 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:00:02 | 5.6 | 18.8 | 22.30802983 | 114.2256098 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:00:44 | 4.2 | 7.8 | 22.30872967 | 114.2265368 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:00:45 | 4.9 | 12.7 | 22.30873033 | 114.226538 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:00:46 | 5.7 | 18.4 | 22.3087355 | 114.226547 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:00:47 | 4.3 | 22.8 | 22.30874617 | 114.2265663 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:01:49 | 4.1 | 20.3 | 22.30906483 | 114.2284663 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:05:42 | 4.7 | 14.8 | 22.31172317 | 114.2266202 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:05:43 | 5.5 | 20.4 | 22.31172617 | 114.2266015 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:06:58 | 4.5 | 10.4 | 22.313026 | 114.2240037 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:06:59 | 4.9 | 15.4 | 22.31302983 | 114.2239985 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:07:00 | 4.3 | 19.7 | 22.31303917 | 114.2239828 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:07:34 | 5.3 | 12.6 | 22.3132765 | 114.2234612 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:07:35 | 5.7 | 18.3 | 22.31328017 | 114.223452 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:07:36 | 4.5 | 22.9 | 22.3132885 | 114.2234312 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:08:39 | 5.1 | 18.6 | 22.3142065 | 114.2212845 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:08:40 | 4 | 22.7 | 22.314221 | 114.221263 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:09:46 | 4.4 | 13.3 | 22.31492967 | 114.2194263 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:13:23 | 4.7 | 11 | 22.32213283 | 114.2142713 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:13:24 | 5.4 | 16.4 | 22.32214033 | 114.2142707 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:14:27 | 5.2 | 14.5 | 22.325347 | 114.2139917 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:14:45 | 4.8 | 10.2 | 22.32559633 | 114.2139505 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:14:46 | 5.3 | 15.5 | 22.32560117 | 114.2139502 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:14:47 | 5.4 | 21 | 22.32561783 | 114.213954 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:15:45 | 4.7 | 11.3 | 22.328811 | 114.211807 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:17:50 | 4.6 | 10.8 | 22.33654217 | 114.20693 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:20:21 | 5.1 | 13.7 | 22.33931033 | 114.2022992 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:20:22 | 4.8 | 18.6 | 22.3393195 | 114.2022898 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:23:42 | 4.9 | 16.2 | 22.34160333 | 114.191501 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:34:11 | 4.9 | 13.2 | 22.368463 | 114.1780798 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:34:12 | 5.1 | 18.4 | 22.3684585 | 114.1780683 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:36:20 | 4.8 | 10.7 | 22.36742433 | 114.176354 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:37:30 | 4.5 | 11.9 | 22.3654495 | 114.1754033 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:37:31 | 4.8 | 16.7 | 22.36543983 | 114.1753937 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:37:32 | 4 | 20.8 | 22.36542783 | 114.1753757 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:38:52 | 5.3 | 14.3 | 22.36287283 | 114.1724795 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:38:53 | 5.4 | 19.7 | 22.36287 | 114.1724638 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:38:54 | 4.2 | 24 | 22.36286783 | 114.1724362 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:40:19 | 4 | 8.4 | 22.36335983 | 114.1713685 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:40:20 | 4.7 | 13.1 | 22.36337483 | 114.1713538 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:41:11 | 4.9 | 12 | 22.365586 | 114.1730488 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:41:12 | 5.5 | 17.5 | 22.36559067 | 114.1730553 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:41:13 | 4.7 | 22.3 | 22.365602 | 114.1730718 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:42:19 | 4.3 | 8.9 | 22.367506 | 114.1743052 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:42:20 | 5.3 | 14.2 | 22.3675135 | 114.1743067 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:42:21 | 4.9 | 19.1 | 22.36752667 | 114.174311 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:42:54 | 5 | 15.6 | 22.368854 | 114.1750745 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:43:47 | 4.6 | 12.9 | 22.37143883 | 114.17833 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:43:48 | 5.5 | 18.5 | 22.37144767 | 114.1783365 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:44:12 | 5 | 10.7 | 22.37229733 | 114.177991 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:44:13 | 4.6 | 15.3 | 22.37229867 | 114.1779903 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:45:49 | 5 | 12.1 | 22.373992 | 114.1767393 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:45:50 | 4.1 | 16.3 | 22.3739985 | 114.1767322 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:46:21 | 5.3 | 11.7 | 22.37481733 | 114.1777382 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:47:07 | 4.2 | 11.2 | 22.37542867 | 114.1776912 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:49:05 | 5.2 | 14.3 | 22.37566517 | 114.1760017 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:49:06 | 4.9 | 19.3 | 22.37565767 | 114.1759868 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:50:12 | 5.9 | 12.9 | 22.3772625 | 114.1739742 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:50:45 | 5.6 | 14.3 | 22.37726833 | 114.1730242 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:50:46 | 5.3 | 19.6 | 22.3772665 | 114.173012 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:52:56 | 4.5 | 20.9 | 22.37658067 | 114.1709848 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:53:52 | 7 | 14 | 22.3774605 | 114.1736742 |
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:53:53 | 5.5 | 19.5 | 22.37746367 | 114.1736805 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | VA3854 | 80 | KT.FRY | 2018-07-26 15:53:48 | 2018-07-26 15:56:00 | 2018-07-26 16:53:54 | 4.1 | 23.7 | 22.3774695 | 114.1737043 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 18:25:38 | 4.4 | 19.3 | 22.3769125 | 114.1718033 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 18:27:30 | 4.5 | 10.8 | 22.37589717 | 114.1755497 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 18:29:36 | 4.5 | 7.6 | 22.37177717 | 114.1785353 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 18:29:38 | 4.9 | 16.6 | 22.37175167 | 114.17857 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 18:31:04 | 4.5 | 15.7 | 22.3689465 | 114.1755008 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 18:31:30 | 4.3 | 17.9 | 22.36849333 | 114.175202 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 18:32:53 | 4.4 | 9.9 | 22.36783083 | 114.1746695 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 18:32:55 | 4.3 | 17.9 | 22.3678025 | 114.1746162 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 18:34:23 | 4.5 | 18.4 | 22.36412833 | 114.1719122 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 18:36:27 | 4.5 | 16.2 | 22.36386333 | 114.1738273 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 18:42:08 | 4 | 11.2 | 22.36938233 | 114.1801388 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 19:02:48 | 4.5 | 16.6 | 22.32535783 | 114.2142297 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 19:03:48 | 4.8 | 17.5 | 22.32121867 | 114.2146153 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 19:10:28 | 4.8 | 17.5 | 22.31138017 | 114.225797 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | MEILAM | 2018-07-26 18:17:16 | 2018-07-26 18:20:00 | 2018-07-26 19:12:14 | 4 | 4.9 | 22.30981867 | 114.2240128 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | KT.FRY | 2018-07-26 19:24:54 | 2018-07-26 19:27:00 | 2018-07-26 19:30:29 | 4.5 | 12.1 | 22.3090575 | 114.2284645 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | KT.FRY | 2018-07-26 19:24:54 | 2018-07-26 19:27:00 | 2018-07-26 20:08:48 | 4.5 | 14.4 | 22.36289033 | 114.1724195 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | KT.FRY | 2018-07-26 19:24:54 | 2018-07-26 19:27:00 | 2018-07-26 20:08:50 | 4.5 | 22.9 | 22.36288033 | 114.1723233 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | KT.FRY | 2018-07-26 19:24:54 | 2018-07-26 19:27:00 | 2018-07-26 20:10:41 | 4.5 | 13.9 | 22.36496117 | 114.1725313 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | KT.FRY | 2018-07-26 19:24:54 | 2018-07-26 19:27:00 | 2018-07-26 20:11:10 | 4.5 | 15.7 | 22.36558483 | 114.173064 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | KT.FRY | 2018-07-26 19:24:54 | 2018-07-26 19:27:00 | 2018-07-26 20:11:55 | 4.5 | 16.2 | 22.36744933 | 114.1742837 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | KT.FRY | 2018-07-26 19:24:54 | 2018-07-26 19:27:00 | 2018-07-26 20:20:46 | 4.5 | 16.6 | 22.37726983 | 114.1739582 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | KT.FRY | 2018-07-26 19:24:54 | 2018-07-26 19:27:00 | 2018-07-26 20:21:20 | 4.5 | 14.8 | 22.37727633 | 114.1730397 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | KT.FRY | 2018-07-26 19:24:54 | 2018-07-26 19:27:00 | 2018-07-26 20:24:11 | 4.9 | 14.8 | 22.377548 | 114.1737887 |
| 69496 | | STD | 2018-07-26 | 80 | KL 631 | 80 | KT.FRY | 2018-07-26 19:24:54 | 2018-07-26 19:27:00 | 2018-07-26 20:24:13 | 4.5 | 22.9 | 22.377562 | 114.1738833 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:41:35 | 4 | 12 | 22.37675333 | 114.1749788 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:41:41 | 4.1 | 22.9 | 22.3765985 | 114.1748932 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:43:22 | 4.8 | 8.4 | 22.37610083 | 114.1707603 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:43:23 | 4.7 | 13.1 | 22.37610533 | 114.1707688 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:43:40 | 4.6 | 24.6 | 22.37660817 | 114.17097 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:45:10 | 5.4 | 10.9 | 22.37742067 | 114.1735713 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:45:11 | 6.4 | 17.3 | 22.37742367 | 114.1735868 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:45:12 | 5.1 | 22.5 | 22.3774295 | 114.1736167 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:45:55 | 5.5 | 10.1 | 22.37586717 | 114.1754505 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:46:57 | 4.3 | 16.7 | 22.3737695 | 114.1769702 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:47:19 | 5.7 | 14.4 | 22.37303117 | 114.1775063 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:47:20 | 6.1 | 20.6 | 22.37301383 | 114.1775203 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:47:21 | 4.6 | 25.3 | 22.37298483 | 114.1775433 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:47:43 | 5.5 | 21.3 | 22.37168183 | 114.1786498 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:48:47 | 4.6 | 9.8 | 22.36861533 | 114.1750722 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:48:48 | 5.7 | 15.6 | 22.36860617 | 114.1750637 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:48:49 | 5.2 | 20.9 | 22.368589 | 114.175045 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:49:48 | 4.8 | 12.1 | 22.36528133 | 114.1729212 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:49:49 | 5.3 | 17.5 | 22.36526867 | 114.1729068 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:49:50 | 4.9 | 22.5 | 22.36524983 | 114.1728812 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:50:23 | 4.8 | 24.4 | 22.3633495 | 114.1712833 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:51:23 | 4.5 | 9.1 | 22.36386 | 114.173701 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:51:24 | 5.6 | 14.8 | 22.3638675 | 114.1737095 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:51:25 | 5.2 | 20.1 | 22.3638815 | 114.1737295 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:52:16 | 4.7 | 23.3 | 22.36544483 | 114.1751735 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 20:53:58 | 4.5 | 23.2 | 22.36654967 | 114.1764345 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:02:28 | 6.2 | 14 | 22.3426385 | 114.18635 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:02:29 | 6.5 | 20.6 | 22.34263183 | 114.186376 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:02:30 | 5.2 | 25.8 | 22.34262067 | 114.186416 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:02:31 | 4.7 | 30.6 | 22.34260583 | 114.1864732 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:02:32 | 4.1 | 34.7 | 22.3425925 | 114.1865467 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:02:33 | 4.5 | 39.2 | 22.34258217 | 114.18663 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:03:16 | 6.2 | 17.3 | 22.3422 | 114.189998 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:03:17 | 5.4 | 22.8 | 22.342181 | 114.1900222 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:03:18 | 4.9 | 27.7 | 22.3421555 | 114.1900617 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:03:19 | 4 | 31.8 | 22.34212217 | 114.1901137 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:03:54 | 5.3 | 12.9 | 22.341769 | 114.1918167 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:03:55 | 6 | 18.9 | 22.34176733 | 114.1918363 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:03:56 | 4.3 | 23.3 | 22.341762 | 114.1918698 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:04:51 | 4.5 | 9 | 22.34180467 | 114.1956997 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:04:52 | 5.7 | 14.7 | 22.341801 | 114.195714 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:04:53 | 5.6 | 20.4 | 22.3417945 | 114.1957387 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:06:40 | 5 | 10.8 | 22.33931417 | 114.202988 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:06:41 | 5.8 | 16.6 | 22.33930367 | 114.2030012 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:06:42 | 5 | 21.7 | 22.33928633 | 114.2030235 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:10:01 | 6.1 | 18.1 | 22.32575817 | 114.2142403 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:10:02 | 5.1 | 23.2 | 22.32572833 | 114.214244 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:10:27 | 5.8 | 18.4 | 22.32544917 | 114.2142293 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:10:28 | 4.4 | 22.8 | 22.32541783 | 114.2142293 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:11:28 | 4.9 | 10.8 | 22.3211875 | 114.2146587 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:11:29 | 5.8 | 16.6 | 22.32117467 | 114.2146602 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:11:30 | 5.4 | 22 | 22.32114933 | 114.2146628 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:12:24 | 5.6 | 11.9 | 22.3174665 | 114.2153143 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:12:25 | 6 | 18 | 22.3174525 | 114.2153215 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:12:26 | 5 | 23 | 22.31742633 | 114.215336 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:13:55 | 5.1 | 13.1 | 22.31553817 | 114.2184192 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:13:56 | 6 | 19.2 | 22.31553 | 114.2184367 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:13:57 | 4.3 | 23.5 | 22.31551767 | 114.2184667 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:14:51 | 5.1 | 20 | 22.31448383 | 114.2212242 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:17:03 | 5.7 | 14.3 | 22.31311217 | 114.2250148 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:17:04 | 5.9 | 20.3 | 22.31310333 | 114.2250352 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:17:05 | 4.4 | 24.7 | 22.31308867 | 114.2250693 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:17:24 | 5.5 | 21.4 | 22.31264083 | 114.226255 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:19:26 | 4.9 | 10 | 22.30958633 | 114.223462 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:19:27 | 5.7 | 15.7 | 22.30957833 | 114.2234512 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 20:35:38 | 2018-07-26 20:39:00 | 2018-07-26 21:19:28 | 5.8 | 21.6 | 22.30955867 | 114.2234308 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:30:43 | 5.2 | 7.7 | 22.308953 | 114.2224402 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:30:43 | 5.2 | 7.7 | 22.308953 | 114.2224402 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:30:43 | 5.2 | 7.7 | 22.308953 | 114.2224402 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:30:43 | 5.2 | 7.7 | 22.308953 | 114.2224402 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:30:44 | 4.1 | 11.9 | 22.3089545 | 114.2224482 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:30:44 | 4.1 | 11.9 | 22.3089545 | 114.2224482 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:30:44 | 4.1 | 11.9 | 22.3089545 | 114.2224482 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:30:44 | 4.1 | 11.9 | 22.3089545 | 114.2224482 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:18 | 4.6 | 9.6 | 22.30830283 | 114.2252812 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:18 | 4.6 | 9.6 | 22.30830283 | 114.2252812 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:18 | 4.6 | 9.6 | 22.30830283 | 114.2252812 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:18 | 4.6 | 9.6 | 22.30830283 | 114.2252812 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:19 | 5.6 | 15.3 | 22.308312 | 114.2252895 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:19 | 5.6 | 15.3 | 22.308312 | 114.2252895 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:19 | 5.6 | 15.3 | 22.308312 | 114.2252895 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:19 | 5.6 | 15.3 | 22.308312 | 114.2252895 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:20 | 5.6 | 21 | 22.30833033 | 114.225307 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:20 | 5.6 | 21 | 22.30833033 | 114.225307 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:20 | 5.6 | 21 | 22.30833033 | 114.225307 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:32:20 | 5.6 | 21 | 22.30833033 | 114.225307 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:03 | 5.5 | 14.2 | 22.30922933 | 114.2268818 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:03 | 5.5 | 14.2 | 22.30922933 | 114.2268818 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:03 | 5.5 | 14.2 | 22.30922933 | 114.2268818 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:03 | 5.5 | 14.2 | 22.30922933 | 114.2268818 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:04 | 5.3 | 19.5 | 22.30923433 | 114.2269082 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:04 | 5.3 | 19.5 | 22.30923433 | 114.2269082 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:04 | 5.3 | 19.5 | 22.30923433 | 114.2269082 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:04 | 5.3 | 19.5 | 22.30923433 | 114.2269082 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:53 | 4.3 | 9.8 | 22.30906733 | 114.2283125 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:53 | 4.3 | 9.8 | 22.30906733 | 114.2283125 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:53 | 4.3 | 9.8 | 22.30906733 | 114.2283125 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:33:53 | 4.3 | 9.8 | 22.30906733 | 114.2283125 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:36:48 | 4.6 | 27 | 22.3131495 | 114.2236945 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:36:48 | 4.6 | 27 | 22.3131495 | 114.2236945 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:36:48 | 4.6 | 27 | 22.3131495 | 114.2236945 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:36:48 | 4.6 | 27 | 22.3131495 | 114.2236945 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:46 | 5.6 | 14 | 22.3141245 | 114.221123 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:46 | 5.6 | 14 | 22.3141245 | 114.221123 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:46 | 5.6 | 14 | 22.3141245 | 114.221123 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:46 | 5.6 | 14 | 22.3141245 | 114.221123 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:47 | 5.7 | 19.8 | 22.314134 | 114.2211058 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:47 | 5.7 | 19.8 | 22.314134 | 114.2211058 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:47 | 5.7 | 19.8 | 22.314134 | 114.2211058 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:47 | 5.7 | 19.8 | 22.314134 | 114.2211058 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:48 | 4.1 | 23.9 | 22.3141485 | 114.221075 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:48 | 4.1 | 23.9 | 22.3141485 | 114.221075 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:48 | 4.1 | 23.9 | 22.3141485 | 114.221075 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:37:48 | 4.1 | 23.9 | 22.3141485 | 114.221075 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:38:51 | 5.5 | 16.2 | 22.31515283 | 114.2187468 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:38:51 | 5.5 | 16.2 | 22.31515283 | 114.2187468 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:38:51 | 5.5 | 16.2 | 22.31515283 | 114.2187468 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:38:51 | 5.5 | 16.2 | 22.31515283 | 114.2187468 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:38:52 | 4.9 | 21.2 | 22.31515283 | 114.2187468 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:38:52 | 4.9 | 21.2 | 22.31515283 | 114.2187468 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:38:52 | 4.9 | 21.2 | 22.31515283 | 114.2187468 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:38:52 | 4.9 | 21.2 | 22.31515283 | 114.2187468 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:42 | 4.4 | 9 | 22.3165235 | 114.2157733 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:42 | 4.4 | 9 | 22.3165235 | 114.2157733 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:42 | 4.4 | 9 | 22.3165235 | 114.2157733 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:42 | 4.4 | 9 | 22.3165235 | 114.2157733 |
| 69496 | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:43 | 5.7 | 14.7 | 22.31653233 | 114.2157675 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:43 | 5.7 | 14.7 | 22.31653233 | 114.2157675 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:43 | 5.7 | 14.7 | 22.31653233 | 114.2157675 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:43 | 5.7 | 14.7 | 22.31653233 | 114.2157675 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:44 | 5.5 | 20.3 | 22.31654917 | 114.2157507 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:44 | 5.5 | 20.3 | 22.31654917 | 114.2157507 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:44 | 5.5 | 20.3 | 22.31654917 | 114.2157507 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:39:44 | 5.5 | 20.3 | 22.31654917 | 114.2157507 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:40:35 | 4.9 | 12.3 | 22.320174 | 114.2144517 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:40:35 | 4.9 | 12.3 | 22.320174 | 114.2144517 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:40:35 | 4.9 | 12.3 | 22.320174 | 114.2144517 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:40:36 | 6.1 | 18.4 | 22.320191 | 114.2144533 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:40:36 | 6.1 | 18.4 | 22.320191 | 114.2144533 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:40:36 | 6.1 | 18.4 | 22.320191 | 114.2144533 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:40:36 | 6.1 | 18.4 | 22.320191 | 114.2144533 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:40:37 | 4.3 | 22.7 | 22.32022083 | 114.2144587 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:40:37 | 4.3 | 22.7 | 22.32022083 | 114.2144587 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:40:37 | 4.3 | 22.7 | 22.32022083 | 114.2144587 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:40:37 | 4.3 | 22.7 | 22.32022083 | 114.2144587 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:28 | 4.7 | 11.3 | 22.32212533 | 114.2142812 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:28 | 4.7 | 11.3 | 22.32212533 | 114.2142812 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:28 | 4.7 | 11.3 | 22.32212533 | 114.2142812 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:28 | 4.7 | 11.3 | 22.32212533 | 114.2142812 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:29 | 5.6 | 17 | 22.32214217 | 114.2142795 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:29 | 5.6 | 17 | 22.32214217 | 114.2142795 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:29 | 5.6 | 17 | 22.32214217 | 114.2142795 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:29 | 5.6 | 17 | 22.32214217 | 114.2142795 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:30 | 4.4 | 21.4 | 22.32217117 | 114.2142793 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:30 | 4.4 | 21.4 | 22.32217117 | 114.2142793 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:30 | 4.4 | 21.4 | 22.32217117 | 114.2142793 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:41:30 | 4.4 | 21.4 | 22.32217117 | 114.2142793 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:42:38 | 5.5 | 15.3 | 22.32562517 | 114.2139585 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:42:38 | 5.5 | 15.3 | 22.32562517 | 114.2139585 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:42:38 | 5.5 | 15.3 | 22.32562517 | 114.2139585 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:42:38 | 5.5 | 15.3 | 22.32562517 | 114.2139585 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:42:39 | 5.2 | 20.6 | 22.32564933 | 114.2139608 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:42:39 | 5.2 | 20.6 | 22.32564933 | 114.2139608 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:42:39 | 5.2 | 20.6 | 22.32564933 | 114.2139608 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:42:39 | 5.2 | 20.6 | 22.32564933 | 114.2139608 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:43:24 | 4.5 | 20.1 | 22.32885583 | 114.21177 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:43:24 | 4.5 | 20.1 | 22.32885583 | 114.21177 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:43:24 | 4.5 | 20.1 | 22.32885583 | 114.21177 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:43:24 | 4.5 | 20.1 | 22.32885583 | 114.21177 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:06 | 4.9 | 11.9 | 22.336629 | 114.2067838 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:06 | 4.9 | 11.9 | 22.336629 | 114.2067838 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:06 | 4.9 | 11.9 | 22.336629 | 114.2067838 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:06 | 4.9 | 11.9 | 22.336629 | 114.2067838 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:07 | 5.4 | 17.4 | 22.33663833 | 114.2067722 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:07 | 5.4 | 17.4 | 22.33663833 | 114.2067722 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:07 | 5.4 | 17.4 | 22.33663833 | 114.2067722 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:07 | 5.4 | 17.4 | 22.33663833 | 114.2067722 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:08 | 4.2 | 21.6 | 22.33665633 | 114.206752 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:08 | 4.2 | 21.6 | 22.33665633 | 114.206752 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:08 | 4.2 | 21.6 | 22.33665633 | 114.206752 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:46:08 | 4.2 | 21.6 | 22.33665633 | 114.206752 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:47:17 | 5.3 | 15.5 | 22.33918267 | 114.2024612 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:47:17 | 5.3 | 15.5 | 22.33918267 | 114.2024612 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:47:17 | 5.3 | 15.5 | 22.33918267 | 114.2024612 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:47:17 | 5.3 | 15.5 | 22.33918267 | 114.2024612 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:47:18 | 4.4 | 19.9 | 22.33919083 | 114.202453 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:47:18 | 4.4 | 19.9 | 22.33919083 | 114.202453 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:47:18 | 4.4 | 19.9 | 22.33919083 | 114.202453 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:47:18 | 4.4 | 19.9 | 22.33919083 | 114.202453 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:05 | 5.1 | 13.2 | 22.34162483 | 114.1942682 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:05 | 5.1 | 13.2 | 22.34162483 | 114.1942682 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:05 | 5.1 | 13.2 | 22.34162483 | 114.1942682 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:05 | 5.1 | 13.2 | 22.34162483 | 114.1942682 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:06 | 5 | 18.3 | 22.34162333 | 114.1942475 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:06 | 5 | 18.3 | 22.34162333 | 114.1942475 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:06 | 5 | 18.3 | 22.34162333 | 114.1942475 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:06 | 5 | 18.3 | 22.34162333 | 114.1942475 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:06 | 5 | 18.3 | 22.34162333 | 114.1942475 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:48 | 4.7 | 13 | 22.34161283 | 114.1914922 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:48 | 4.7 | 13 | 22.34161283 | 114.1914922 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:48 | 4.7 | 13 | 22.34161283 | 114.1914922 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:48 | 4.7 | 13 | 22.34161283 | 114.1914922 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:49 | 4.9 | 17.9 | 22.34161467 | 114.19147 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:49 | 4.9 | 17.9 | 22.34161467 | 114.19147 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:49 | 4.9 | 17.9 | 22.34161467 | 114.19147 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:49:49 | 4.9 | 17.9 | 22.34161467 | 114.19147 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:50:53 | 4.7 | 15.2 | 22.34232817 | 114.188301 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:50:53 | 4.7 | 15.2 | 22.34232817 | 114.188301 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:50:53 | 4.7 | 15.2 | 22.34232817 | 114.188301 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:50:53 | 4.7 | 15.2 | 22.34232817 | 114.188301 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:50:54 | 4.1 | 19.3 | 22.34233467 | 114.188274 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:50:54 | 4.1 | 19.3 | 22.34233467 | 114.188274 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:50:54 | 4.1 | 19.3 | 22.34233467 | 114.188274 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:50:54 | 4.1 | 19.3 | 22.34233467 | 114.188274 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:58:55 | 5 | 14 | 22.36846967 | 114.1781022 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:58:55 | 5 | 14 | 22.36846967 | 114.1781022 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:58:55 | 5 | 14 | 22.36846967 | 114.1781022 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:58:55 | 5 | 14 | 22.36846967 | 114.1781022 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:58:56 | 5.4 | 19.4 | 22.36846067 | 114.1780773 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:58:56 | 5.4 | 19.4 | 22.36846067 | 114.1780773 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:58:56 | 5.4 | 19.4 | 22.36846067 | 114.1780773 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 21:58:56 | 5.4 | 19.4 | 22.36846067 | 114.1780773 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:00:18 | 4 | 16 | 22.3674755 | 114.1764005 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:00:18 | 4 | 16 | 22.3674755 | 114.1764005 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:00:18 | 4 | 16 | 22.3674755 | 114.1764005 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:00:18 | 4 | 16 | 22.3674755 | 114.1764005 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:47 | 4 | 9 | 22.36543283 | 114.1754088 |
| 69496 | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:47 | 4 | 9 | 22.36543283 | 114.1754088 | |
| 69496 | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:47 | 4 | 9 | 22.36543283 | 114.1754088 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:47 | 4 | 9 | 22.36543283 | 114.1754088 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:48 | 5.4 | 14.4 | 22.36543283 | 114.1754088 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:48 | 5.4 | 14.4 | 22.36543283 | 114.1754088 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:48 | 5.4 | 14.4 | 22.36543283 | 114.1754088 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:48 | 5.4 | 14.4 | 22.36543283 | 114.1754088 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:49 | 5 | 19.5 | 22.36541233 | 114.1753787 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:49 | 5 | 19.5 | 22.36541233 | 114.1753787 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:49 | 5 | 19.5 | 22.36541233 | 114.1753787 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:01:49 | 5 | 19.5 | 22.36541233 | 114.1753787 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:02:59 | 4.1 | 8.7 | 22.3628555 | 114.172495 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:02:59 | 4.1 | 8.7 | 22.3628555 | 114.172495 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:02:59 | 4.1 | 8.7 | 22.3628555 | 114.172495 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:02:59 | 4.1 | 8.7 | 22.3628555 | 114.172495 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:00 | 5.6 | 14.3 | 22.36285633 | 114.1724873 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:00 | 5.6 | 14.3 | 22.36285633 | 114.1724873 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:00 | 5.6 | 14.3 | 22.36285633 | 114.1724873 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:00 | 5.6 | 14.3 | 22.36285633 | 114.1724873 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:01 | 5.5 | 19.9 | 22.36285533 | 114.1724665 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:01 | 5.5 | 19.9 | 22.36285533 | 114.1724665 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:01 | 5.5 | 19.9 | 22.36285533 | 114.1724665 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:01 | 5.5 | 19.9 | 22.36285533 | 114.1724665 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:02 | 4.2 | 24.2 | 22.3628535 | 114.1724288 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:02 | 4.2 | 24.2 | 22.3628535 | 114.1724288 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:02 | 4.2 | 24.2 | 22.3628535 | 114.1724288 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:03:02 | 4.2 | 24.2 | 22.3628535 | 114.1724288 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:04:04 | 5.4 | 13.9 | 22.3633635 | 114.1713588 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:04:04 | 5.4 | 13.9 | 22.3633635 | 114.1713588 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:04:04 | 5.4 | 13.9 | 22.3633635 | 114.1713588 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:04:04 | 5.4 | 13.9 | 22.3633635 | 114.1713588 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:42 | 5.1 | 11.5 | 22.367453 | 114.1742543 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:42 | 5.1 | 11.5 | 22.367453 | 114.1742543 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:42 | 5.1 | 11.5 | 22.367453 | 114.1742543 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:42 | 5.1 | 11.5 | 22.367453 | 114.1742543 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:43 | 6 | 17.5 | 22.367468 | 114.1742602 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:43 | 6 | 17.5 | 22.367468 | 114.1742602 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:43 | 6 | 17.5 | 22.367468 | 114.1742602 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:43 | 6 | 17.5 | 22.367468 | 114.1742602 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:44 | 4.5 | 22.1 | 22.36749183 | 114.1742708 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:44 | 4.5 | 22.1 | 22.36749183 | 114.1742708 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:44 | 4.5 | 22.1 | 22.36749183 | 114.1742708 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:05:44 | 4.5 | 22.1 | 22.36749183 | 114.1742708 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:06:31 | 5.8 | 16.6 | 22.36884717 | 114.175063 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:06:31 | 5.8 | 16.6 | 22.36884717 | 114.175063 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:06:31 | 5.8 | 16.6 | 22.36884717 | 114.175063 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:06:31 | 5.8 | 16.6 | 22.36884717 | 114.175063 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:06:32 | 5.2 | 21.8 | 22.368865 | 114.175086 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:06:32 | 5.2 | 21.8 | 22.368865 | 114.175086 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:06:32 | 5.2 | 21.8 | 22.368865 | 114.175086 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:06:32 | 5.2 | 21.8 | 22.368865 | 114.175086 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:07:29 | 5 | 19.9 | 22.37144283 | 114.1783788 |
| 69496 | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:07:29 | 5 | 19.9 | 22.37144283 | 114.1783788 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:07:29 | 5 | 19.9 | 22.37144283 | 114.1783788 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:07:29 | 5 | 19.9 | 22.37144283 | 114.1783788 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:09:00 | 5.2 | 11.4 | 22.374029 | 114.1766743 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:09:00 | 5.2 | 11.4 | 22.374029 | 114.1766743 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:09:00 | 5.2 | 11.4 | 22.374029 | 114.1766743 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:09:00 | 5.2 | 11.4 | 22.374029 | 114.1766743 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:09:01 | 5 | 16.5 | 22.37403967 | 114.1766657 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:09:01 | 5 | 16.5 | 22.37403967 | 114.1766657 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:09:01 | 5 | 16.5 | 22.37403967 | 114.1766657 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:09:01 | 5 | 16.5 | 22.37403967 | 114.1766657 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:01 | 5.5 | 12.9 | 22.37548 | 114.177629 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:01 | 5.5 | 12.9 | 22.37548 | 114.177629 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:01 | 5.5 | 12.9 | 22.37548 | 114.177629 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:01 | 5.5 | 12.9 | 22.37548 | 114.177629 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:02 | 4.5 | 17.4 | 22.37549167 | 114.1776178 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:02 | 4.5 | 17.4 | 22.37549167 | 114.1776178 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:02 | 4.5 | 17.4 | 22.37549167 | 114.1776178 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:02 | 4.5 | 17.4 | 22.37549167 | 114.1776178 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:03 | 4.8 | 22.2 | 22.37551517 | 114.1775968 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:03 | 4.8 | 22.2 | 22.37551517 | 114.1775968 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:03 | 4.8 | 22.2 | 22.37551517 | 114.1775968 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:03 | 4.8 | 22.2 | 22.37551517 | 114.1775968 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:53 | 5.4 | 11.1 | 22.37623833 | 114.1769802 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:53 | 5.4 | 11.1 | 22.37623833 | 114.1769802 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:53 | 5.4 | 11.1 | 22.37623833 | 114.1769802 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:53 | 5.4 | 11.1 | 22.37623833 | 114.1769802 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:54 | 4.9 | 16 | 22.37622533 | 114.1769767 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:54 | 4.9 | 16 | 22.37622533 | 114.1769767 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:54 | 4.9 | 16 | 22.37622533 | 114.1769767 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:10:54 | 4.9 | 16 | 22.37622533 | 114.1769767 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:03 | 5.5 | 11.2 | 22.3757175 | 114.1760223 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:03 | 5.5 | 11.2 | 22.3757175 | 114.1760223 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:03 | 5.5 | 11.2 | 22.3757175 | 114.1760223 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:03 | 5.5 | 11.2 | 22.3757175 | 114.1760223 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:04 | 5.9 | 17.2 | 22.37570783 | 114.176009 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:04 | 5.9 | 17.2 | 22.37570783 | 114.176009 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:04 | 5.9 | 17.2 | 22.37570783 | 114.176009 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:04 | 5.9 | 17.2 | 22.37570783 | 114.176009 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:05 | 4.8 | 22.1 | 22.37568767 | 114.1759837 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:05 | 4.8 | 22.1 | 22.37568767 | 114.1759837 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:05 | 4.8 | 22.1 | 22.37568767 | 114.1759837 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:12:05 | 4.8 | 22.1 | 22.37568767 | 114.1759837 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:12 | 5.3 | 12.1 | 22.37712567 | 114.1739978 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:12 | 5.3 | 12.1 | 22.37712567 | 114.1739978 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:12 | 5.3 | 12.1 | 22.37712567 | 114.1739978 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:12 | 5.3 | 12.1 | 22.37712567 | 114.1739978 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:13 | 4.3 | 16.4 | 22.37714183 | 114.1739937 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:13 | 4.3 | 16.4 | 22.37714183 | 114.1739937 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:13 | 4.3 | 16.4 | 22.37714183 | 114.1739937 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:13 | 4.3 | 16.4 | 22.37714183 | 114.1739937 |
| 69496 | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:51 | 4.6 | 8.6 | 22.37728717 | 114.1730153 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:51 | 4.6 | 8.6 | 22.37728717 | 114.1730153 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:51 | 4.6 | 8.6 | 22.37728717 | 114.1730153 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:51 | 4.6 | 8.6 | 22.37728717 | 114.1730153 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:52 | 5.9 | 14.5 | 22.3772845 | 114.1730052 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:52 | 5.9 | 14.5 | 22.3772845 | 114.1730052 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:52 | 5.9 | 14.5 | 22.3772845 | 114.1730052 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:52 | 5.9 | 14.5 | 22.3772845 | 114.1730052 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:53 | 5.4 | 20 | 22.3772815 | 114.1729825 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:53 | 5.4 | 20 | 22.3772815 | 114.1729825 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:13:53 | 5.4 | 20 | 22.3772815 | 114.1729825 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:15:12 | 4.3 | 20.9 | 22.37624433 | 114.1704035 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:15:12 | 4.3 | 20.9 | 22.37624433 | 114.1704035 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:15:12 | 4.3 | 20.9 | 22.37624433 | 114.1704035 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:15:12 | 4.3 | 20.9 | 22.37624433 | 114.1704035 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:16:28 | 5.1 | 24.8 | 22.37671733 | 114.1711093 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:16:28 | 5.1 | 24.8 | 22.37671733 | 114.1711093 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:16:28 | 5.1 | 24.8 | 22.37671733 | 114.1711093 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:16:28 | 5.1 | 24.8 | 22.37671733 | 114.1711093 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:18:09 | 5.1 | 11 | 22.3775225 | 114.173749 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:18:09 | 5.1 | 11 | 22.3775225 | 114.173749 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:18:09 | 5.1 | 11 | 22.3775225 | 114.173749 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:18:09 | 5.1 | 11 | 22.3775225 | 114.173749 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:18:10 | 4.1 | 15.2 | 22.3775225 | 114.173749 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:18:10 | 4.1 | 15.2 | 22.3775225 | 114.173749 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:18:10 | 4.1 | 15.2 | 22.3775225 | 114.173749 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | KT.FRY | 2018-07-26 21:27:46 | 2018-07-26 21:30:00 | 2018-07-26 22:18:10 | 4.1 | 15.2 | 22.3775225 | 114.173749 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:11 | 5.5 | 10.6 | 22.3768565 | 114.1749912 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:11 | 5.5 | 10.6 | 22.3768565 | 114.1749912 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:11 | 5.5 | 10.6 | 22.3768565 | 114.1749912 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:11 | 5.5 | 10.6 | 22.3768565 | 114.1749912 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:12 | 6.4 | 17.1 | 22.376845 | 114.1749978 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:12 | 6.4 | 17.1 | 22.376845 | 114.1749978 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:12 | 6.4 | 17.1 | 22.376845 | 114.1749978 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:12 | 6.4 | 17.1 | 22.376845 | 114.1749978 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:13 | 5.2 | 22.3 | 22.37682117 | 114.1750118 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:13 | 5.2 | 22.3 | 22.37682117 | 114.1750118 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:13 | 5.2 | 22.3 | 22.37682117 | 114.1750118 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:13 | 5.2 | 22.3 | 22.37682117 | 114.1750118 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:14 | 4.7 | 9.8 | 22.375812 | 114.1756172 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:14 | 4.7 | 9.8 | 22.375812 | 114.1756172 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:14 | 4.7 | 9.8 | 22.375812 | 114.1756172 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:14 | 4.7 | 9.8 | 22.375812 | 114.1756172 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:15 | 5.8 | 15.6 | 22.37580117 | 114.1756245 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:15 | 5.8 | 15.6 | 22.37580117 | 114.1756245 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:15 | 5.8 | 15.6 | 22.37580117 | 114.1756245 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:15 | 5.8 | 15.6 | 22.37580117 | 114.1756245 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:16 | 5.4 | 21.1 | 22.37577917 | 114.1756388 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:16 | 5.4 | 21.1 | 22.37577917 | 114.1756388 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:16 | 5.4 | 21.1 | 22.37577917 | 114.1756388 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:21:16 | 5.4 | 21.1 | 22.37577917 | 114.1756388 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:02 | 5.1 | 11.8 | 22.37178333 | 114.1786327 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:02 | 5.1 | 11.8 | 22.37178333 | 114.1786327 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:02 | 5.1 | 11.8 | 22.37178333 | 114.1786327 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:02 | 5.1 | 11.8 | 22.37178333 | 114.1786327 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:03 | 6.4 | 18.3 | 22.371776 | 114.1786503 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:03 | 6.4 | 18.3 | 22.371776 | 114.1786503 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:03 | 6.4 | 18.3 | 22.371776 | 114.1786503 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:03 | 6.4 | 18.3 | 22.371776 | 114.1786503 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:04 | 5.3 | 23.6 | 22.37176 | 114.1786788 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:04 | 5.3 | 23.6 | 22.37176 | 114.1786788 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:04 | 5.3 | 23.6 | 22.37176 | 114.1786788 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:23:04 | 5.3 | 23.6 | 22.37176 | 114.1786788 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:55 | 5 | 10 | 22.31411383 | 114.2171013 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:55 | 5 | 10 | 22.31411383 | 114.2171013 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:55 | 5 | 10 | 22.31411383 | 114.2171013 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:55 | 5 | 10 | 22.31411383 | 114.2171013 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:56 | 4.9 | 14.9 | 22.31410783 | 114.2171128 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:56 | 4.9 | 14.9 | 22.31410783 | 114.2171128 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:56 | 4.9 | 14.9 | 22.31410783 | 114.2171128 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:56 | 4.9 | 14.9 | 22.31410783 | 114.2171128 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:57 | 6.1 | 21.1 | 22.31408967 | 114.2171337 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:57 | 6.1 | 21.1 | 22.31408967 | 114.2171337 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:57 | 6.1 | 21.1 | 22.31408967 | 114.2171337 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:57 | 6.1 | 21.1 | 22.31408967 | 114.2171337 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:58 | 4 | 25.2 | 22.31406483 | 114.217166 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:58 | 4 | 25.2 | 22.31406483 | 114.217166 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:58 | 4 | 25.2 | 22.31406483 | 114.217166 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:34:58 | 4 | 25.2 | 22.31406483 | 114.217166 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:36:43 | 5.5 | 21.4 | 22.30777367 | 114.2222342 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:36:43 | 5.5 | 21.4 | 22.30777367 | 114.2222342 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:36:43 | 5.5 | 21.4 | 22.30777367 | 114.2222342 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:36:43 | 5.5 | 21.4 | 22.30777367 | 114.2222342 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:36:44 | 4 | 25.4 | 22.30774333 | 114.2222598 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:36:44 | 4 | 25.4 | 22.30774333 | 114.2222598 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:36:44 | 4 | 25.4 | 22.30774333 | 114.2222598 |
| 69496 | | STD | 2018-07-26 | 80 | UV7724 | 80 | MEILAM | 2018-07-26 21:27:46 | 2018-07-26 22:19:00 | 2018-07-26 22:36:44 | 4 | 25.4 | 22.30774333 | 114.2222598 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:21:13 | 4.4 | 9.8 | 22.37776333 | 114.1746138 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:21:14 | 4.8 | 14.7 | 22.37775883 | 114.174612 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:21:15 | 4.3 | 19 | 22.37775133 | 114.1745987 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:22:39 | 4.5 | 8.1 | 22.37678183 | 114.1750033 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:23:53 | 4.6 | 15.8 | 22.376069 | 114.1704723 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:23:54 | 4.5 | 20.3 | 22.37606467 | 114.1704952 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:24:50 | 4.6 | 9.1 | 22.37614833 | 114.1707822 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:24:51 | 4.9 | 14 | 22.37614917 | 114.170784 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:25:09 | 4.5 | 20.5 | 22.376619 | 114.1710072 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:25:36 | 5 | 14.6 | 22.37686017 | 114.1717945 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:25:37 | 5.4 | 20 | 22.37686433 | 114.1718077 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:26:14 | 5 | 8.9 | 22.37748783 | 114.1736892 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:26:15 | 5.8 | 14.8 | 22.3774895 | 114.1736925 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:27:00 | 5.1 | 11.5 | 22.3758825 | 114.1755617 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:28:36 | 6 | 9.3 | 22.3743185 | 114.1765043 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:28:37 | 6.4 | 15.8 | 22.37431717 | 114.176505 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:28:38 | 5.7 | 21.6 | 22.37430767 | 114.1765133 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:29:50 | 5.2 | 20 | 22.37374383 | 114.1769868 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:30:34 | 4.4 | 20.9 | 22.37173667 | 114.1786083 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:31:17 | 6 | 19.1 | 22.3707305 | 114.1778272 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:31:52 | 5 | 8.7 | 22.3691255 | 114.1755818 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:31:53 | 5.6 | 14.3 | 22.36912517 | 114.1755803 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:32:23 | 4.5 | 6.2 | 22.36862517 | 114.1751287 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:32:24 | 4.6 | 10.8 | 22.36862517 | 114.1751287 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:32:25 | 5.7 | 16.5 | 22.368615 | 114.1751295 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:32:26 | 4.5 | 21 | 22.368597 | 114.1751222 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:33:15 | 6 | 6 | 22.36814417 | 114.1747808 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:34:09 | 4.9 | 10.5 | 22.365325 | 114.1730197 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:34:10 | 6 | 16.5 | 22.36531317 | 114.1730125 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:34:11 | 4.6 | 21.1 | 22.3652975 | 114.172996 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:34:48 | 5.1 | 13 | 22.36413467 | 114.1719622 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:34:49 | 5.4 | 18.4 | 22.364127 | 114.1719545 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:35:19 | 5 | 11.5 | 22.36358317 | 114.1714302 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:35:28 | 4.4 | 20.8 | 22.36335783 | 114.1713485 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:36:31 | 5.1 | 12.5 | 22.36383333 | 114.173827 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:36:32 | 5.8 | 18.4 | 22.36384167 | 114.1738327 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:36:33 | 4.7 | 23.1 | 22.3638575 | 114.1738462 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:37:27 | 4.7 | 9.5 | 22.365393 | 114.1752197 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:37:28 | 5.4 | 15 | 22.36539667 | 114.175225 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:37:29 | 4.7 | 19.8 | 22.365406 | 114.175238 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:38:43 | 5 | 10.4 | 22.3670355 | 114.1762983 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:38:44 | 6.1 | 16.6 | 22.3670415 | 114.1762953 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:39:30 | 5.2 | 7 | 22.36864267 | 114.1783053 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:39:31 | 5.7 | 12.7 | 22.36864267 | 114.1783053 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:39:32 | 5.7 | 18.4 | 22.3686455 | 114.1783113 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:40:19 | 4.9 | 11.4 | 22.36903417 | 114.1791882 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:40:20 | 5.6 | 17 | 22.36903733 | 114.1791985 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:40:21 | 4.6 | 21.6 | 22.36904017 | 114.1792202 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:41:02 | 5.2 | 11.1 | 22.36936233 | 114.1801382 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:41:03 | 5.6 | 16.7 | 22.36936383 | 114.1801405 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:42:01 | 4.5 | 14.4 | 22.36605217 | 114.1807705 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:47:18 | 4.7 | 9.7 | 22.34267933 | 114.1863672 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:47:19 | 5.7 | 15.4 | 22.34267767 | 114.1863712 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:47:20 | 5.8 | 21.2 | 22.34267333 | 114.1863852 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:47:21 | 5 | 26.3 | 22.342666 | 114.1864135 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:47:22 | 4.3 | 30.7 | 22.342655 | 114.1864552 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:48:33 | 4.5 | 9.8 | 22.341772 | 114.191806 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:48:34 | 5.3 | 15.1 | 22.341766 | 114.1918063 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:48:35 | 5.3 | 20.5 | 22.341762 | 114.1918183 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:49:41 | 4.8 | 17.2 | 22.34182867 | 114.1956872 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:49:42 | 4.4 | 21.6 | 22.341827 | 114.195714 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:53:01 | 5 | 15.1 | 22.33863183 | 114.2038698 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:53:02 | 5.3 | 20.5 | 22.33861583 | 114.2038792 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:56:19 | 4.7 | 12.8 | 22.32582017 | 114.2143143 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:56:20 | 5.4 | 18.3 | 22.325809 | 114.2143173 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:56:21 | 4.1 | 22.4 | 22.32578717 | 114.2143205 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:56:55 | 4.4 | 9.1 | 22.32533767 | 114.2143148 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:56:56 | 5.5 | 14.7 | 22.325332 | 114.214313 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:56:57 | 6.2 | 20.9 | 22.3253175 | 114.2143088 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:58:02 | 4.5 | 10.3 | 22.32156733 | 114.2146265 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:58:03 | 4.5 | 14.8 | 22.32156133 | 114.2146268 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:58:04 | 5.3 | 20.1 | 22.321545 | 114.2146288 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:58:05 | 4.2 | 24.4 | 22.3215175 | 114.2146313 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:59:02 | 4.3 | 5.9 | 22.3174505 | 114.2152797 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:59:03 | 4.8 | 10.7 | 22.3174505 | 114.2152797 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:59:04 | 5.9 | 16.7 | 22.31744667 | 114.2152838 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 12:59:05 | 4.8 | 21.5 | 22.3174315 | 114.2152908 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:00:34 | 4.6 | 21.5 | 22.3155945 | 114.2181902 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:01:31 | 4.7 | 8.7 | 22.31449133 | 114.2210638 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:01:38 | 4 | 24.8 | 22.31442183 | 114.2212277 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:02:13 | 5.7 | 13.1 | 22.3137765 | 114.2229252 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:02:14 | 6.3 | 19.4 | 22.31376117 | 114.2229283 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:03:56 | 5.2 | 9.2 | 22.312967 | 114.2248818 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:03:57 | 5.5 | 14.7 | 22.312961 | 114.2248713 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:03:58 | 5.6 | 20.3 | 22.3129575 | 114.2248683 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:04:23 | 5.8 | 8.6 | 22.31261317 | 114.2260713 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:04:24 | 6.6 | 15.2 | 22.31261417 | 114.226071 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:04:25 | 5.4 | 20.7 | 22.312616 | 114.2260793 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:06:15 | 4.4 | 20.8 | 22.30972867 | 114.2240938 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:07:26 | 7 | 7 | 22.30951233 | 114.2236332 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:07:27 | 5.9 | 13 | 22.30951233 | 114.2236332 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:07:28 | 6.6 | 19.6 | 22.30951833 | 114.2236095 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:08:20 | 4.4 | 23.1 | 22.30724717 | 114.2226508 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:08:47 | 5.8 | 17.1 | 22.3071705 | 114.2218992 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 12:17:48 | 2018-07-27 12:20:00 | 2018-07-27 13:08:48 | 4.9 | 22.1 | 22.3071865 | 114.2218885 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:32:19 | 4.7 | 10.2 | 22.30831533 | 114.22267 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:33:30 | 6 | 9.4 | 22.30759083 | 114.2233915 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:33:31 | 5.9 | 15.3 | 22.30758467 | 114.2233958 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:33:32 | 5.5 | 20.9 | 22.307567 | 114.223412 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:33:59 | 5.4 | 7.7 | 22.30692383 | 114.224045 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:34:00 | 5.1 | 12.9 | 22.30691933 | 114.2240527 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:34:03 | 4.7 | 24.4 | 22.30692783 | 114.2241685 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:34:40 | 4 | 5.6 | 22.30801833 | 114.2255375 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:35:08 | 4.8 | 11.9 | 22.30828167 | 114.2259955 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:36:19 | 6.7 | 6.7 | 22.309004 | 114.2270977 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:36:20 | 5.6 | 12.3 | 22.309007 | 114.2271045 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:36:40 | 4.7 | 6.2 | 22.30905917 | 114.2276865 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:37:14 | 4.1 | 8.1 | 22.3090555 | 114.22849 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:37:15 | 4.8 | 13 | 22.30906367 | 114.2284972 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:37:29 | 4.5 | 13.2 | 22.309257 | 114.2286058 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:39:53 | 4.9 | 21.2 | 22.3117165 | 114.2264702 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:41:23 | 5.3 | 8.1 | 22.31308733 | 114.2240023 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:41:24 | 4.4 | 12.6 | 22.31309217 | 114.2239923 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:41:25 | 4.6 | 17.2 | 22.31310483 | 114.2239715 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:42:42 | 4.7 | 9.8 | 22.3141805 | 114.22122 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:42:43 | 5.8 | 15.6 | 22.31419133 | 114.2212113 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:42:44 | 5 | 20.7 | 22.314203 | 114.2211882 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:43:45 | 5.2 | 10.3 | 22.31510633 | 114.2189645 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:44:59 | 4.8 | 14 | 22.31655283 | 114.2157332 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:45:00 | 5.9 | 19.9 | 22.31657133 | 114.2157135 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:46:27 | 4.5 | 8.1 | 22.32179833 | 114.2142673 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:46:28 | 5.2 | 13.3 | 22.32180867 | 114.214267 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:46:29 | 4.7 | 18.1 | 22.32183117 | 114.2142645 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:47:08 | 4.5 | 8.2 | 22.322145 | 114.2142713 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:47:09 | 4.7 | 13 | 22.32215717 | 114.2142763 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:48:51 | 4.4 | 6.9 | 22.32561467 | 114.213988 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:48:52 | 4.5 | 11.5 | 22.325622 | 114.2139853 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:48:53 | 5.8 | 17.4 | 22.325641 | 114.2139847 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:48:54 | 4.7 | 22.1 | 22.32567217 | 114.2139808 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:49:53 | 4 | 9 | 22.32882467 | 114.2118422 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:49:54 | 5.3 | 14.4 | 22.32883317 | 114.2118305 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:49:55 | 5.1 | 19.5 | 22.32884983 | 114.2118108 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:52:01 | 4.9 | 12.1 | 22.33661317 | 114.20678 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:53:13 | 4.5 | 12.6 | 22.33918617 | 114.2024625 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:53:14 | 5.2 | 17.9 | 22.33919783 | 114.2024423 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:55:08 | 4.5 | 7.9 | 22.34160283 | 114.1942535 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:55:09 | 4.7 | 12.7 | 22.341604 | 114.194244 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:55:10 | 5 | 17.7 | 22.34160433 | 114.1942208 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:56:03 | 5.2 | 14.4 | 22.34156917 | 114.1915283 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:56:04 | 4.6 | 19.1 | 22.3415715 | 114.1915002 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:56:58 | 4.8 | 15.3 | 22.34235733 | 114.1883422 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 13:56:59 | 4 | 19.3 | 22.342361 | 114.1883132 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:03:40 | 4.6 | 10 | 22.36903583 | 114.1794533 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:03:41 | 4.6 | 14.7 | 22.36902967 | 114.1794398 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:03:42 | 4.4 | 19.1 | 22.36901867 | 114.1794157 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:04:40 | 4.5 | 12.4 | 22.36846117 | 114.1780572 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:04:41 | 4.6 | 17.1 | 22.3684525 | 114.1780355 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:04:42 | 4.1 | 21.3 | 22.36843883 | 114.1780025 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:05:59 | 4.8 | 12.2 | 22.3674515 | 114.1763612 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:06:29 | 4.1 | 26.2 | 22.36620633 | 114.1764177 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:07:29 | 4.2 | 20.3 | 22.36540233 | 114.175265 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:08:20 | 5.2 | 12.7 | 22.36302067 | 114.172646 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:08:21 | 4.1 | 16.9 | 22.363006 | 114.1726283 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:09:02 | 5.3 | 11.6 | 22.362904 | 114.1724547 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:09:03 | 6.1 | 17.7 | 22.3629 | 114.172435 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:09:04 | 4.5 | 22.3 | 22.36289667 | 114.1724008 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:10:05 | 5.3 | 12.2 | 22.36336883 | 114.1713483 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:10:06 | 5 | 17.2 | 22.3633815 | 114.1713335 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:10:54 | 5.2 | 12 | 22.3655595 | 114.1730855 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:10:55 | 5.9 | 18 | 22.3655735 | 114.1730993 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:10:56 | 4.5 | 22.6 | 22.365596 | 114.1731245 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:12:05 | 4.5 | 9.6 | 22.36887167 | 114.1750252 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:12:06 | 6.7 | 16.3 | 22.36888283 | 114.175035 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:12:07 | 4.9 | 21.2 | 22.36890167 | 114.1750555 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:12:55 | 4.8 | 7.3 | 22.37122083 | 114.1780672 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:13:51 | 5.2 | 11.5 | 22.37267367 | 114.1776938 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:13:52 | 5.8 | 17.3 | 22.37268817 | 114.177681 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:13:53 | 4.4 | 21.8 | 22.37271217 | 114.1776572 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:14:19 | 4.1 | 8.5 | 22.373295 | 114.1771313 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:14:20 | 4.4 | 13 | 22.37330517 | 114.1771243 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:14:21 | 4.5 | 17.6 | 22.37332683 | 114.1771147 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:14:22 | 4.2 | 21.8 | 22.37336167 | 114.1771048 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:15:33 | 5.3 | 15.4 | 22.3740725 | 114.1766685 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:16:45 | 5.3 | 8.9 | 22.374929 | 114.1777758 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:17:26 | 4.2 | 8.4 | 22.3754245 | 114.1777347 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:17:27 | 5.8 | 14.2 | 22.37543467 | 114.1777268 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:17:28 | 5 | 19.3 | 22.37545517 | 114.1777137 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:18:35 | 4.2 | 8.8 | 22.376243 | 114.1769633 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:18:36 | 5.1 | 14 | 22.37625267 | 114.1769547 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:19:41 | 4.8 | 8.6 | 22.37726717 | 114.1739547 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:19:42 | 5.6 | 14.2 | 22.3772765 | 114.173952 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:19:43 | 5 | 19.2 | 22.37729867 | 114.1739465 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:20:14 | 4.9 | 15.5 | 22.37735117 | 114.1731288 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:20:15 | 4.7 | 20.3 | 22.3773485 | 114.1730962 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:21:31 | 4.3 | 10.1 | 22.376005 | 114.1707977 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:21:45 | 6.3 | 10 | 22.37615833 | 114.1709907 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 13:27:38 | 2018-07-27 13:30:00 | 2018-07-27 14:21:59 | 4.6 | 22.2 | 22.376668 | 114.1710235 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:39:12 | 4.7 | 6.8 | 22.37778833 | 114.1746702 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:39:13 | 4.7 | 11.6 | 22.37778267 | 114.174661 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:40:45 | 4.6 | 20.3 | 22.37666683 | 114.1751242 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:42:34 | 4.3 | 7.6 | 22.37602067 | 114.1708887 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:42:35 | 5.3 | 12.9 | 22.37602433 | 114.1708983 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:43:14 | 4.8 | 21.1 | 22.37650633 | 114.1710732 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:43:37 | 4.9 | 10.6 | 22.3768245 | 114.1718102 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:43:38 | 5.9 | 16.6 | 22.376829 | 114.1718268 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:43:39 | 5.2 | 21.9 | 22.37683717 | 114.1718563 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:44:14 | 5.6 | 9.8 | 22.37742383 | 114.1736485 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:44:15 | 6.1 | 16 | 22.37742833 | 114.1736608 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:45:00 | 4.4 | 8.3 | 22.3758555 | 114.1756223 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:45:01 | 5.6 | 14 | 22.3758455 | 114.175629 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:45:02 | 5.2 | 19.2 | 22.375825 | 114.1756425 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:46:37 | 5.6 | 10.8 | 22.37439067 | 114.1766138 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:46:38 | 6.1 | 16.9 | 22.3743795 | 114.1766233 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:46:39 | 5.4 | 22.3 | 22.37435583 | 114.1766407 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:47:20 | 5.2 | 12.2 | 22.373838 | 114.1770908 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:47:21 | 5.5 | 17.8 | 22.37381683 | 114.1770965 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:47:22 | 5.1 | 22.9 | 22.37378883 | 114.1771133 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:47:59 | 4.3 | 7.6 | 22.37229517 | 114.1781765 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:48:00 | 5.4 | 13.1 | 22.37228567 | 114.1781813 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:48:01 | 5.7 | 18.9 | 22.37226583 | 114.1781927 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:48:17 | 4.6 | 17 | 22.37178517 | 114.1786528 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:48:18 | 4.7 | 21.7 | 22.37176333 | 114.1786798 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:48:58 | 4.4 | 9 | 22.37066617 | 114.1779092 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:48:59 | 5.7 | 14.7 | 22.370659 | 114.1778968 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:49:00 | 5.4 | 20.1 | 22.37064633 | 114.177873 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:49:41 | 5.3 | 8.3 | 22.36904183 | 114.1755173 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:49:42 | 5.9 | 14.2 | 22.36903783 | 114.1755088 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:49:43 | 5.9 | 20.2 | 22.36902367 | 114.1754907 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:50:48 | 4.9 | 13.5 | 22.368584 | 114.1751238 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:50:49 | 5.7 | 19.2 | 22.36856533 | 114.1751098 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:51:48 | 5.2 | 7.4 | 22.3679875 | 114.1746547 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:51:49 | 5.5 | 13 | 22.36798217 | 114.1746477 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:51:50 | 5.6 | 18.6 | 22.3679655 | 114.1746347 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:52:40 | 4.4 | 7.8 | 22.36530617 | 114.1730065 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:53:07 | 4.3 | 8.3 | 22.36503583 | 114.1727113 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:53:08 | 5.4 | 13.8 | 22.365051 | 114.1726877 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:53:09 | 5.6 | 19.5 | 22.36503417 | 114.1726722 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:53:39 | 5.3 | 16.7 | 22.36415767 | 114.171909 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:53:40 | 4.2 | 21 | 22.36414067 | 114.1718827 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:53:58 | 4 | 25.5 | 22.36333 | 114.1713408 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:55:08 | 4.3 | 19.5 | 22.36392117 | 114.1737888 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:55:55 | 4.9 | 8.7 | 22.3654315 | 114.1751737 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:55:56 | 4.5 | 13.2 | 22.36543933 | 114.1751838 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:55:57 | 4.9 | 18.1 | 22.365454 | 114.175205 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:58:43 | 5.5 | 9.1 | 22.36623183 | 114.1760925 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:58:44 | 5.8 | 15 | 22.36623683 | 114.1761045 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:58:45 | 5.7 | 20.7 | 22.36624717 | 114.1761303 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:59:35 | 5.7 | 5.7 | 22.36653833 | 114.1765603 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:59:36 | 5.6 | 11.4 | 22.36654217 | 114.1765588 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:59:37 | 6 | 17.5 | 22.36655733 | 114.176552 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 14:59:38 | 4.3 | 21.8 | 22.366592 | 114.1765392 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:00:14 | 5 | 19.3 | 22.36814917 | 114.1771138 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:00:15 | 4.3 | 23.7 | 22.36817067 | 114.177148 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:00:52 | 4.8 | 8.8 | 22.368633 | 114.178158 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:00:53 | 5.7 | 14.6 | 22.36863733 | 114.1781698 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:00:54 | 5.3 | 19.9 | 22.368648 | 114.1782012 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:01:45 | 5.4 | 15.6 | 22.36906533 | 114.1792058 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:02:24 | 5 | 8.8 | 22.36938017 | 114.1800957 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:02:25 | 6 | 14.8 | 22.36938483 | 114.1801062 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:02:26 | 4.5 | 19.4 | 22.36939583 | 114.1801302 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:08:42 | 6.8 | 8.8 | 22.342695 | 114.1863888 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:08:43 | 6 | 14.9 | 22.34269417 | 114.1863973 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:08:44 | 6.4 | 21.3 | 22.34268933 | 114.1864227 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:08:45 | 5.4 | 26.8 | 22.34268117 | 114.1864645 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:09:54 | 4.7 | 7.8 | 22.34180767 | 114.1917477 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:09:55 | 4.8 | 12.6 | 22.34180667 | 114.1917592 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:09:56 | 5.4 | 18.1 | 22.34180467 | 114.1917828 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:09:57 | 4.6 | 22.8 | 22.34179967 | 114.1918197 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:10:43 | 5.5 | 5.5 | 22.34173483 | 114.1953035 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:10:44 | 5.8 | 11.4 | 22.3417345 | 114.1953073 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:10:45 | 6.1 | 17.5 | 22.34173617 | 114.1953243 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:11:07 | 4.4 | 9.5 | 22.34175917 | 114.1956298 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:11:08 | 5.3 | 14.8 | 22.34175833 | 114.195645 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:11:09 | 5.7 | 20.6 | 22.341755 | 114.195673 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:12:29 | 5.1 | 12.2 | 22.33952433 | 114.2027855 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:12:30 | 5 | 17.3 | 22.33950917 | 114.2028013 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:12:31 | 4 | 21.3 | 22.33948433 | 114.202826 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:13:08 | 4.9 | 8.6 | 22.33867233 | 114.2038127 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:13:09 | 5.7 | 14.4 | 22.338663 | 114.2038203 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:13:10 | 5.7 | 20.1 | 22.33864267 | 114.2038367 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:14:00 | 4.2 | 13 | 22.33676383 | 114.2070242 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:15:39 | 5.6 | 9 | 22.3348705 | 114.2080627 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:19:30 | 4.5 | 7.9 | 22.32534633 | 114.2142962 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:19:31 | 5.3 | 13.2 | 22.32533433 | 114.2142935 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:19:32 | 5.9 | 19.1 | 22.32531233 | 114.2142857 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:20:30 | 4.9 | 10.3 | 22.3213885 | 114.2146625 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:20:31 | 5.8 | 16.1 | 22.32137467 | 114.2146633 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:20:32 | 5.1 | 21.3 | 22.321348 | 114.214664 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:21:31 | 4.6 | 9.8 | 22.31745717 | 114.21531 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:21:32 | 5.6 | 15.4 | 22.31744517 | 114.2153165 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:21:33 | 5.2 | 20.7 | 22.31742117 | 114.2153305 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:22:20 | 4.7 | 7.7 | 22.31564017 | 114.2182403 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:22:21 | 5.6 | 13.4 | 22.31563633 | 114.2182503 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:22:22 | 4.5 | 17.9 | 22.3156285 | 114.218272 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:24:20 | 4.5 | 8 | 22.31389367 | 114.2227758 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:25:02 | 4.7 | 9.7 | 22.31331667 | 114.2243693 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:25:03 | 5.2 | 15 | 22.31330617 | 114.2243812 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:26:07 | 4.8 | 8.8 | 22.31310383 | 114.2248672 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:26:08 | 5.3 | 14.2 | 22.31309483 | 114.224875 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:26:35 | 4.6 | 19.9 | 22.31258867 | 114.226262 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:27:06 | 4.5 | 15.2 | 22.31164083 | 114.2260968 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:27:07 | 4.8 | 20 | 22.31161667 | 114.22608 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:27:35 | 4.5 | 8.8 | 22.3110945 | 114.2254873 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:27:36 | 5.3 | 14.1 | 22.31108417 | 114.2254797 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:28:34 | 4.2 | 7 | 22.31008533 | 114.2243825 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:31:28 | 5.3 | 7.1 | 22.30702783 | 114.2220432 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:31:29 | 5.3 | 12.4 | 22.30703233 | 114.2220355 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | MEILAM | 2018-07-27 14:35:53 | 2018-07-27 14:38:00 | 2018-07-27 15:31:30 | 4.5 | 17 | 22.30704483 | 114.2220158 |
| 69496 | | STD | NULL | NULL | UX8921 | NULL | NULL | 2018-07-27 15:53:47 | NULL | 2018-07-27 15:55:55 | 8.1 | 8.1 | 22.3079355 | 114.2218723 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 15:56:17 | 5.1 | 9.5 | 22.30854383 | 114.2220438 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 15:56:18 | 5.1 | 14.7 | 22.30855467 | 114.222051 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 15:56:19 | 6.1 | 20.9 | 22.30858117 | 114.2220548 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 15:56:42 | 4.2 | 7.5 | 22.30893767 | 114.2222412 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 15:56:43 | 4.7 | 12.2 | 22.308944 | 114.2222493 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 15:56:44 | 5.1 | 17.3 | 22.30895617 | 114.2222675 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 15:56:45 | 4.9 | 22.2 | 22.30897233 | 114.2222977 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 15:57:18 | 5.6 | 11.6 | 22.30848667 | 114.2226803 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:00:23 | 5.1 | 9.3 | 22.30690333 | 114.2239188 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:00:27 | 4.5 | 24.5 | 22.30688883 | 114.2240848 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:02:13 | 5.3 | 17.8 | 22.30907033 | 114.2284957 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:03:37 | 4.9 | 17.7 | 22.31035467 | 114.2291825 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:03:38 | 4.9 | 22.6 | 22.3103795 | 114.229157 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:08:07 | 4.7 | 10.2 | 22.31190917 | 114.2267385 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:09:07 | 5.7 | 5.7 | 22.3130965 | 114.2242582 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:09:08 | 4.4 | 10.2 | 22.31309567 | 114.2242515 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:09:09 | 5.4 | 15.7 | 22.31309933 | 114.2242342 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:11:02 | 4.6 | 9.8 | 22.31427267 | 114.2212785 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:11:03 | 5.5 | 15.3 | 22.31428233 | 114.2212643 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:11:04 | 5.1 | 20.5 | 22.31429583 | 114.2212382 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:11:37 | 5.3 | 5.3 | 22.31508417 | 114.2193228 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:11:38 | 4.3 | 9.7 | 22.31508567 | 114.2193167 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:12:23 | 4.8 | 6.6 | 22.31623867 | 114.2162472 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:12:24 | 4.2 | 10.9 | 22.316242 | 114.2162418 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:12:39 | 4.5 | 7.3 | 22.31654433 | 114.2158813 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:13:10 | 4.6 | 10.8 | 22.31660233 | 114.215817 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:13:11 | 5.8 | 16.6 | 22.316614 | 114.215804 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:13:12 | 4.6 | 21.2 | 22.316634 | 114.2157813 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:15:01 | 5.5 | 16.4 | 22.32180933 | 114.2143477 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:15:38 | 4.4 | 6.2 | 22.32213767 | 114.2143085 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:15:39 | 4.8 | 11.1 | 22.322144 | 114.2143082 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:15:40 | 4.9 | 16 | 22.32216133 | 114.2143082 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:16:22 | 4.3 | 21.2 | 22.32530667 | 114.21404 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:16:39 | 4.8 | 13.4 | 22.32559417 | 114.2139867 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:16:40 | 5.8 | 19.2 | 22.3256175 | 114.2139852 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:16:41 | 4.1 | 23.3 | 22.3256535 | 114.2139803 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:19:11 | 4.4 | 8.3 | 22.33365717 | 114.2077053 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:19:12 | 6 | 14.3 | 22.33366733 | 114.2077152 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:20:05 | 4.5 | 7.2 | 22.33649567 | 114.2069225 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:22:28 | 4 | 7 | 22.33920033 | 114.202468 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:22:29 | 4.9 | 12 | 22.33920667 | 114.2024577 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:22:30 | 5.2 | 17.2 | 22.33922167 | 114.2024403 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:23:55 | 4.1 | 11.5 | 22.34166017 | 114.1948102 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:25:05 | 4.1 | 8.1 | 22.34164717 | 114.194271 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:25:06 | 4.7 | 12.8 | 22.341647 | 114.1942587 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:25:07 | 5.1 | 18 | 22.34164683 | 114.1942343 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:25:59 | 4.9 | 17.3 | 22.34159617 | 114.1914237 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:32:21 | 5.4 | 10.8 | 22.36568533 | 114.1806925 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:32:22 | 6.1 | 17 | 22.36570233 | 114.180689 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:32:23 | 5.5 | 22.5 | 22.36573417 | 114.1806832 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:32:24 | 4 | 26.5 | 22.36578117 | 114.1806777 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:34:27 | 4.7 | 7.1 | 22.36914583 | 114.1797995 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:34:28 | 5 | 12.2 | 22.36912833 | 114.1797632 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:35:34 | 4.3 | 12.4 | 22.368841 | 114.1790315 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:35:35 | 4.8 | 17.2 | 22.368832 | 114.1790098 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:36:40 | 4.6 | 12.1 | 22.3684665 | 114.1780905 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:36:41 | 5.2 | 17.3 | 22.3684605 | 114.1780707 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:36:42 | 4 | 21.4 | 22.36844933 | 114.1780387 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:38:19 | 4.3 | 6.6 | 22.367424 | 114.1763663 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:38:20 | 4.6 | 11.2 | 22.36741983 | 114.1763592 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:39:36 | 5.1 | 14.3 | 22.365454 | 114.1753575 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:39:37 | 4.9 | 19.3 | 22.3654395 | 114.1753345 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:40:54 | 4.4 | 12.4 | 22.362863 | 114.1724617 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:40:55 | 6 | 18.5 | 22.36285767 | 114.172438 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:40:56 | 4.4 | 22.9 | 22.3628545 | 114.172399 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:41:55 | 6.1 | 12.1 | 22.36331783 | 114.1713948 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:41:56 | 5.7 | 17.9 | 22.36333067 | 114.17138 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:42:05 | 4.1 | 22.6 | 22.36370317 | 114.171355 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:42:56 | 5.3 | 11.7 | 22.36556983 | 114.1730432 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:42:57 | 6 | 17.7 | 22.36558317 | 114.1730563 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:42:58 | 4.7 | 22.5 | 22.36560467 | 114.173081 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:44:18 | 4.8 | 10.3 | 22.367518 | 114.1743108 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:44:19 | 5.3 | 15.6 | 22.36753233 | 114.1743152 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:44:20 | 5.2 | 20.8 | 22.3675595 | 114.1743237 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:45:06 | 5.1 | 10.7 | 22.368847 | 114.1750818 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:45:07 | 5.3 | 16.1 | 22.36885917 | 114.1750935 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:45:08 | 5 | 21.2 | 22.368879 | 114.1751163 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:45:09 | 4.1 | 25.4 | 22.36890617 | 114.1751513 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:45:56 | 4.6 | 19 | 22.37147833 | 114.1783665 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:46:21 | 4.4 | 14.9 | 22.37268167 | 114.17773 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:46:22 | 4.6 | 19.6 | 22.37270383 | 114.1777108 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:46:58 | 5.7 | 14.8 | 22.37330033 | 114.177175 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:46:59 | 4.1 | 19 | 22.37333 | 114.17717 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:47:58 | 5.8 | 5.8 | 22.37404233 | 114.1767185 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:47:59 | 4.5 | 10.3 | 22.374046 | 114.176715 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:48:00 | 5.3 | 15.6 | 22.37405767 | 114.176703 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:49:17 | 5.2 | 14 | 22.37488933 | 114.1777693 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:52:21 | 4.6 | 14.7 | 22.376017 | 114.1771577 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:52:22 | 4.5 | 19.3 | 22.376041 | 114.1771387 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:52:54 | 4.6 | 18.4 | 22.37573733 | 114.1759872 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:53:56 | 4.2 | 9.1 | 22.377314 | 114.173969 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:53:57 | 4.8 | 14 | 22.37732667 | 114.1739663 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:54:32 | 5.7 | 16 | 22.37729433 | 114.1730462 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:54:33 | 5.2 | 21.3 | 22.377289 | 114.173016 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:56:33 | 4.1 | 17.5 | 22.37658 | 114.1709448 |
| 69496 | | STD | 2018-07-27 | 80 | UX8921 | 80 | KT.FRY | 2018-07-27 15:53:47 | 2018-07-27 15:56:00 | 2018-07-27 16:56:34 | 5.1 | 22.6 | 22.37660933 | 114.1709777 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:32:15 | 4.5 | 8.5 | 22.377519 | 114.1737368 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:32:17 | 4.5 | 17.1 | 22.37753467 | 114.1738097 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:33:05 | 4.5 | 11.2 | 22.3759055 | 114.1755732 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:34:39 | 4.5 | 18.4 | 22.37302867 | 114.1775565 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:42:12 | 4.5 | 15.7 | 22.363896 | 114.173843 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:45:21 | 4.5 | 10.8 | 22.36696883 | 114.1763263 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:45:23 | 4.3 | 18.8 | 22.36703817 | 114.1762935 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:56:51 | 4.8 | 6.7 | 22.34272367 | 114.186335 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:56:52 | 4.5 | 11.2 | 22.34271833 | 114.1863577 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:56:54 | 4.9 | 20.2 | 22.3426985 | 114.1864355 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:56:55 | 4.8 | 25.1 | 22.34268783 | 114.1864943 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 18:56:56 | 5 | 30.1 | 22.34267783 | 114.1865673 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 19:09:42 | 4.5 | 18.4 | 22.32530883 | 114.2142848 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 19:10:40 | 4 | 16.6 | 22.32114683 | 114.2146672 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 19:12:37 | 4.5 | 5.4 | 22.31583383 | 114.2178122 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 19:12:39 | 4.8 | 13.9 | 22.31581133 | 114.2178833 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 19:14:01 | 4.5 | 5.4 | 22.314368 | 114.2210745 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | MEILAM | 2018-07-27 18:23:35 | 2018-07-27 18:26:00 | 2018-07-27 19:20:34 | 4.5 | 15.7 | 22.30970267 | 114.22363 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | KT.FRY | 2018-07-27 19:27:46 | 2018-07-27 19:30:00 | 2018-07-27 19:33:41 | 4.5 | 11.2 | 22.30896517 | 114.2268707 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | KT.FRY | 2018-07-27 19:27:46 | 2018-07-27 19:30:00 | 2018-07-27 19:34:38 | 4.4 | 19.3 | 22.30913917 | 114.2285222 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | KT.FRY | 2018-07-27 19:27:46 | 2018-07-27 19:30:00 | 2018-07-27 19:49:25 | 4.5 | 16.2 | 22.32567 | 114.213995 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | KT.FRY | 2018-07-27 19:27:46 | 2018-07-27 19:30:00 | 2018-07-27 20:06:47 | 4.5 | 12.6 | 22.36841533 | 114.1780663 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | KT.FRY | 2018-07-27 19:27:46 | 2018-07-27 19:30:00 | 2018-07-27 20:10:53 | 4.5 | 17.5 | 22.36286767 | 114.1723333 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | KT.FRY | 2018-07-27 19:27:46 | 2018-07-27 19:30:00 | 2018-07-27 20:17:02 | 4.8 | 17.9 | 22.372607 | 114.1776717 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | KT.FRY | 2018-07-27 19:27:46 | 2018-07-27 19:30:00 | 2018-07-27 20:22:50 | 4.5 | 6.3 | 22.37721717 | 114.1739867 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | KT.FRY | 2018-07-27 19:27:46 | 2018-07-27 19:30:00 | 2018-07-27 20:22:52 | 4.5 | 14.8 | 22.37727883 | 114.1739692 |
| 69496 | | STD | 2018-07-27 | 80 | KL 631 | 80 | KT.FRY | 2018-07-27 19:27:46 | 2018-07-27 19:30:00 | 2018-07-27 20:24:50 | 4.5 | 7.2 | 0 | 0 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:42:15 | 5 | 7.8 | 22.37671733 | 114.1750015 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:42:16 | 4.7 | 12.5 | 22.37671167 | 114.1750047 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:42:22 | 5.3 | 22.3 | 22.376541 | 114.174963 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:43:51 | 4.3 | 8.1 | 22.376053 | 114.1708313 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:43:52 | 5 | 13.2 | 22.37605817 | 114.1708407 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:44:08 | 4.2 | 17.5 | 22.37650767 | 114.1709667 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:44:09 | 4.8 | 22.4 | 22.37652833 | 114.1710125 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:44:32 | 4.7 | 9.5 | 22.37679233 | 114.1717457 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:44:33 | 6 | 15.5 | 22.37679317 | 114.171758 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:44:34 | 5.9 | 21.5 | 22.3767945 | 114.1717847 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:45:51 | 5.7 | 8 | 22.37739267 | 114.1736822 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:45:52 | 6.1 | 14.2 | 22.37739433 | 114.1736898 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:45:53 | 6.2 | 20.4 | 22.37739767 | 114.1737123 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:46:35 | 4.9 | 8.2 | 22.37571067 | 114.1755597 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:46:36 | 5.9 | 14.2 | 22.37570533 | 114.1755628 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:46:37 | 6.1 | 20.3 | 22.375689 | 114.1755735 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:47:38 | 5.1 | 17.9 | 22.37366967 | 114.1769892 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:47:39 | 4.9 | 22.8 | 22.37364017 | 114.177005 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:48:08 | 4.9 | 10.3 | 22.37298833 | 114.1775078 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:48:09 | 6 | 16.3 | 22.37297867 | 114.1775167 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:48:10 | 4.8 | 21.2 | 22.372958 | 114.177534 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:48:36 | 5 | 17.8 | 22.37170233 | 114.1786115 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:48:37 | 4.8 | 22.6 | 22.37168017 | 114.1786338 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:50:41 | 5.4 | 5.4 | 22.36784917 | 114.1745677 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:50:42 | 5.2 | 10.7 | 22.3678465 | 114.1745672 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:50:43 | 6.3 | 17.1 | 22.3678375 | 114.174563 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:50:44 | 5.5 | 22.6 | 22.36781617 | 114.1745505 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:51:31 | 4.5 | 8.3 | 22.36529533 | 114.1729533 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:51:32 | 5.5 | 13.8 | 22.36528867 | 114.1729462 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:52:03 | 4.3 | 6.8 | 22.36503817 | 114.1726842 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:52:04 | 5.6 | 12.5 | 22.3650425 | 114.1726942 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:52:05 | 5.4 | 18 | 22.36503 | 114.1726885 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:52:35 | 4.1 | 12 | 22.36412833 | 114.1719107 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:52:36 | 4.6 | 16.7 | 22.36411567 | 114.1718942 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:52:38 | 4.2 | 25.3 | 22.364068 | 114.1718372 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:54:03 | 5.3 | 7.1 | 22.363538 | 114.1713432 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:54:04 | 4.8 | 11.9 | 22.36354267 | 114.1713468 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:54:10 | 4.7 | 18.2 | 22.36339667 | 114.1713202 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:54:11 | 4.8 | 23 | 22.36336883 | 114.1713423 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:54:12 | 4 | 27.1 | 22.36333717 | 114.1713768 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:54:58 | 4.4 | 10.2 | 22.363841 | 114.1737692 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:55:00 | 4.8 | 18.5 | 22.36386583 | 114.173802 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:55:01 | 4.3 | 22.8 | 22.363886 | 114.1738323 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:55:50 | 5.1 | 12.4 | 22.36540217 | 114.1751842 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:55:51 | 5.6 | 18 | 22.365413 | 114.175202 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:55:52 | 5.3 | 23.3 | 22.36543267 | 114.1752278 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:57:19 | 4 | 10.2 | 22.36685333 | 114.1763105 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 20:59:57 | 5.1 | 21.4 | 22.36905567 | 114.1792492 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:00:25 | 5.2 | 10.6 | 22.3693175 | 114.179989 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:00:26 | 4.5 | 15.1 | 22.36932533 | 114.1800072 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:01:23 | 4.9 | 11.3 | 22.366079 | 114.1807413 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:01:24 | 5.1 | 16.4 | 22.36606367 | 114.1807422 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:01:58 | 4.9 | 13.5 | 22.36468833 | 114.1812173 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:01:59 | 4.8 | 18.3 | 22.36466817 | 114.181223 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:06:49 | 7 | 16.6 | 22.34263217 | 114.1863928 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:06:50 | 6.2 | 22.8 | 22.34262483 | 114.1864212 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:06:51 | 4.9 | 27.8 | 22.342613 | 114.186466 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:06:52 | 4.7 | 32.6 | 22.34259917 | 114.1865268 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:06:53 | 4.5 | 37.1 | 22.34258767 | 114.1866047 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:07:31 | 6.1 | 8 | 22.34222533 | 114.1900197 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:07:32 | 6.1 | 14.2 | 22.34221917 | 114.190029 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:07:33 | 6.2 | 20.4 | 22.34220367 | 114.1900465 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:07:34 | 5.2 | 25.7 | 22.34218083 | 114.1900777 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:07:35 | 4 | 29.7 | 22.34215067 | 114.1901238 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:08:28 | 5.1 | 22.9 | 22.34173833 | 114.1919945 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:09:25 | 4.5 | 8.3 | 22.341787 | 114.1957332 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:09:26 | 5.6 | 14 | 22.34178667 | 114.1957493 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:09:27 | 5.5 | 19.5 | 22.34178283 | 114.1957742 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:09:28 | 4.2 | 23.7 | 22.341781 | 114.195813 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:10:46 | 4.9 | 11.8 | 22.33948617 | 114.2028167 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:10:47 | 5.7 | 17.5 | 22.339473 | 114.202829 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:12:00 | 5 | 20.1 | 22.336667 | 114.2071293 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:12:01 | 4.4 | 24.6 | 22.33663383 | 114.2071523 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:14:15 | 4.8 | 6.2 | 22.32532233 | 114.21428 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:14:16 | 5.1 | 11.4 | 22.32532117 | 114.2142817 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:14:17 | 5.8 | 17.3 | 22.32530667 | 114.2142762 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:15:51 | 4.9 | 8.9 | 22.317477 | 114.2152983 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:15:52 | 5.7 | 14.7 | 22.3174685 | 114.215303 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:15:53 | 5.9 | 20.7 | 22.31744733 | 114.2153152 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:15:54 | 4.3 | 25 | 22.31741417 | 114.2153363 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:16:55 | 4.6 | 7.6 | 22.31562317 | 114.2182983 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:16:56 | 4.9 | 12.6 | 22.31562 | 114.2183033 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:17:54 | 4.9 | 11.2 | 22.314595 | 114.2209533 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:17:55 | 5.8 | 17.1 | 22.31458833 | 114.2209693 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:17:56 | 5.3 | 22.4 | 22.31457433 | 114.2209965 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:18:37 | 4.4 | 9.8 | 22.31401583 | 114.222475 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:19:22 | 4.5 | 25 | 22.313619 | 114.2235592 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:20:07 | 5.1 | 5.1 | 22.31332617 | 114.2245608 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:20:49 | 4.2 | 25.8 | 22.31271433 | 114.2262327 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:21:55 | 5.3 | 10.3 | 22.3111575 | 114.2256095 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:21:56 | 4.6 | 15 | 22.31114933 | 114.2255998 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:22:29 | 4.1 | 23.7 | 22.31028583 | 114.2246118 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:23:27 | 5.2 | 10.1 | 22.309579 | 114.2237492 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:23:28 | 5.5 | 15.6 | 22.30956883 | 114.2237387 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 20:37:50 | 2018-07-27 20:40:00 | 2018-07-27 21:23:29 | 4.4 | 20.1 | 22.309551 | 114.2237162 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:07 | 5.1 | 18.8 | 22.3080475 | 114.2219373 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:07 | 5.1 | 18.8 | 22.3080475 | 114.2219373 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:07 | 5.1 | 18.8 | 22.3080475 | 114.2219373 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:07 | 5.1 | 18.8 | 22.3080475 | 114.2219373 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:25 | 4.3 | 14.8 | 22.30855833 | 114.2220485 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:25 | 4.3 | 14.8 | 22.30855833 | 114.2220485 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:25 | 4.3 | 14.8 | 22.30855833 | 114.2220485 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:25 | 4.3 | 14.8 | 22.30855833 | 114.2220485 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|------------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:26 | 5.1 | 20 | 22.30858467 | 114.2220577 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:26 | 5.1 | 20 | 22.30858467 | 114.2220577 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:26 | 5.1 | 20 | 22.30858467 | 114.2220577 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:26 | 5.1 | 20 | 22.30858467 | 114.2220577 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:27 | 4.9 | 24.9 | 22.308622 | 114.2220685 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:27 | 4.9 | 24.9 | 22.308622 | 114.2220685 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:27 | 4.9 | 24.9 | 22.308622 | 114.2220685 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:36:27 | 4.9 | 24.9 | 22.308622 | 114.2220685 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:08 | 4.5 | 15.8 | 22.307263 | 114.2237483 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:08 | 4.5 | 15.8 | 22.307263 | 114.2237483 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:08 | 4.5 | 15.8 | 22.307263 | 114.2237483 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:08 | 4.5 | 15.8 | 22.307263 | 114.2237483 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:09 | 4 | 19.9 | 22.30724117 | 114.2237685 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:09 | 4 | 19.9 | 22.30724117 | 114.2237685 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:09 | 4 | 19.9 | 22.30724117 | 114.2237685 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:09 | 4 | 19.9 | 22.30724117 | 114.2237685 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:20 | 4.3 | 23.2 | 22.306968 | 114.2242417 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:20 | 4.3 | 23.2 | 22.306968 | 114.2242417 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:20 | 4.3 | 23.2 | 22.306968 | 114.2242417 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:20 | 4.3 | 23.2 | 22.306968 | 114.2242417 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:55 | 5.1 | 7.1 | 22.308142 | 114.2254643 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:55 | 5.1 | 7.1 | 22.308142 | 114.2254643 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:55 | 5.1 | 7.1 | 22.308142 | 114.2254643 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:55 | 5.1 | 7.1 | 22.308142 | 114.2254643 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:56 | 5.2 | 12.4 | 22.30814583 | 114.2254678 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:56 | 5.2 | 12.4 | 22.30814583 | 114.2254678 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:56 | 5.2 | 12.4 | 22.30814583 | 114.2254678 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:56 | 5.2 | 12.4 | 22.30814583 | 114.2254678 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:57 | 5.9 | 18.4 | 22.30815817 | 114.22548 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:57 | 5.9 | 18.4 | 22.30815817 | 114.22548 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:57 | 5.9 | 18.4 | 22.30815817 | 114.22548 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:57 | 5.9 | 18.4 | 22.30815817 | 114.22548 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:58 | 4.6 | 23 | 22.30817933 | 114.2255025 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:58 | 4.6 | 23 | 22.30817933 | 114.2255025 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:58 | 4.6 | 23 | 22.30817933 | 114.2255025 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:37:58 | 4.6 | 23 | 22.30817933 | 114.2255025 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:38:57 | 4.1 | 12.3 | 22.30896383 | 114.228445 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:38:57 | 4.1 | 12.3 | 22.30896383 | 114.228445 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:38:57 | 4.1 | 12.3 | 22.30896383 | 114.228445 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:38:57 | 4.1 | 12.3 | 22.30896383 | 114.228445 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:38:58 | 4.3 | 16.6 | 22.30898067 | 114.2284587 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:38:58 | 4.3 | 16.6 | 22.30898067 | 114.2284587 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:38:58 | 4.3 | 16.6 | 22.30898067 | 114.2284587 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:38:58 | 4.3 | 16.6 | 22.30898067 | 114.2284587 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:26 | 4.3 | 6.3 | 22.309807 | 114.228969 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:26 | 4.3 | 6.3 | 22.309807 | 114.228969 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:26 | 4.3 | 6.3 | 22.309807 | 114.228969 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:26 | 4.3 | 6.3 | 22.309807 | 114.228969 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:27 | 5.6 | 11.9 | 22.3098115 | 114.2289722 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:27 | 5.6 | 11.9 | 22.3098115 | 114.2289722 |
| 69496 | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:27 | 5.6 | 11.9 | 22.3098115 | 114.2289722 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|------------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:27 | 5.6 | 11.9 | 22.3098115 | 114.2289722 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:28 | 4 | 16 | 22.3098245 | 114.2289832 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:28 | 4 | 16 | 22.3098245 | 114.2289832 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:28 | 4 | 16 | 22.3098245 | 114.2289832 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:28 | 4 | 16 | 22.3098245 | 114.2289832 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:42 | 5.3 | 21.7 | 22.31021783 | 114.2291315 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:42 | 5.3 | 21.7 | 22.31021783 | 114.2291315 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:42 | 5.3 | 21.7 | 22.31021783 | 114.2291315 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:39:42 | 5.3 | 21.7 | 22.31021783 | 114.2291315 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:20 | 4.1 | 6.2 | 22.31154933 | 114.2267627 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:20 | 4.1 | 6.2 | 22.31154933 | 114.2267627 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:20 | 4.1 | 6.2 | 22.31154933 | 114.2267627 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:20 | 4.1 | 6.2 | 22.31154933 | 114.2267627 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:31 | 4.7 | 16.8 | 22.31163733 | 114.2265793 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:31 | 4.7 | 16.8 | 22.31163733 | 114.2265793 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:31 | 4.7 | 16.8 | 22.31163733 | 114.2265793 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:31 | 4.7 | 16.8 | 22.31163733 | 114.2265793 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:32 | 5.4 | 22.2 | 22.31165017 | 114.2265492 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:32 | 5.4 | 22.2 | 22.31165017 | 114.2265492 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:32 | 5.4 | 22.2 | 22.31165017 | 114.2265492 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:40:32 | 5.4 | 22.2 | 22.31165017 | 114.2265492 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:42:46 | 4.3 | 17.6 | 22.31301617 | 114.223813 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:42:46 | 4.3 | 17.6 | 22.31301617 | 114.223813 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:42:46 | 4.3 | 17.6 | 22.31301617 | 114.223813 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:42:46 | 4.3 | 17.6 | 22.31301617 | 114.223813 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:43:58 | 4.2 | 7.4 | 22.3140035 | 114.2211462 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:43:58 | 4.2 | 7.4 | 22.3140035 | 114.2211462 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:43:58 | 4.2 | 7.4 | 22.3140035 | 114.2211462 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:43:58 | 4.2 | 7.4 | 22.3140035 | 114.2211462 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:43:59 | 5.6 | 13.1 | 22.31401217 | 114.2211403 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:43:59 | 5.6 | 13.1 | 22.31401217 | 114.2211403 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:43:59 | 5.6 | 13.1 | 22.31401217 | 114.2211403 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:43:59 | 5.6 | 13.1 | 22.31401217 | 114.2211403 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:44:00 | 5.1 | 18.2 | 22.31402567 | 114.221124 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:44:00 | 5.1 | 18.2 | 22.31402567 | 114.221124 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:44:00 | 5.1 | 18.2 | 22.31402567 | 114.221124 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:44:00 | 5.1 | 18.2 | 22.31402567 | 114.221124 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:44:01 | 4.5 | 22.8 | 22.31404217 | 114.2210937 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:44:01 | 4.5 | 22.8 | 22.31404217 | 114.2210937 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:44:01 | 4.5 | 22.8 | 22.31404217 | 114.2210937 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:44:01 | 4.5 | 22.8 | 22.31404217 | 114.2210937 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:25 | 5.3 | 12.5 | 22.31506717 | 114.21855 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:25 | 5.3 | 12.5 | 22.31506717 | 114.21855 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:25 | 5.3 | 12.5 | 22.31506717 | 114.21855 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:25 | 5.3 | 12.5 | 22.31506717 | 114.21855 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:26 | 5.4 | 18 | 22.31507483 | 114.2185322 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:26 | 5.4 | 18 | 22.31507483 | 114.2185322 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:26 | 5.4 | 18 | 22.31507483 | 114.2185322 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:26 | 5.4 | 18 | 22.31507483 | 114.2185322 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:27 | 4 | 22.1 | 22.3150875 | 114.2185018 |
| 69496 | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:27 | 4 | 22.1 | 22.3150875 | 114.2185018 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:27 | 4 | 22.1 | 22.3150875 | 114.2185018 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:45:27 | 4 | 22.1 | 22.3150875 | 114.2185018 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:46:08 | 4.7 | 12.6 | 22.31647967 | 114.2157702 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:46:08 | 4.7 | 12.6 | 22.31647967 | 114.2157702 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:46:08 | 4.7 | 12.6 | 22.31647967 | 114.2157702 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:46:08 | 4.7 | 12.6 | 22.31647967 | 114.2157702 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:46:09 | 6.2 | 18.9 | 22.31649417 | 114.215754 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:46:09 | 6.2 | 18.9 | 22.31649417 | 114.215754 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:46:09 | 6.2 | 18.9 | 22.31649417 | 114.215754 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:46:10 | 4 | 23 | 22.3165175 | 114.2157295 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:46:10 | 4 | 23 | 22.3165175 | 114.2157295 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:46:10 | 4 | 23 | 22.3165175 | 114.2157295 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:46:10 | 4 | 23 | 22.3165175 | 114.2157295 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:49:15 | 4.8 | 15.7 | 22.32563783 | 114.2139683 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:49:15 | 4.8 | 15.7 | 22.32563783 | 114.2139683 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:49:15 | 4.8 | 15.7 | 22.32563783 | 114.2139683 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:49:15 | 4.8 | 15.7 | 22.32563783 | 114.2139683 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:49:16 | 4.9 | 20.7 | 22.32566567 | 114.213967 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:49:16 | 4.9 | 20.7 | 22.32566567 | 114.213967 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:49:16 | 4.9 | 20.7 | 22.32566567 | 114.213967 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:49:16 | 4.9 | 20.7 | 22.32566567 | 114.213967 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:50:17 | 4.9 | 13.3 | 22.32881067 | 114.2117975 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:50:17 | 4.9 | 13.3 | 22.32881067 | 114.2117975 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:50:17 | 4.9 | 13.3 | 22.32881067 | 114.2117975 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:50:17 | 4.9 | 13.3 | 22.32881067 | 114.2117975 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:53:12 | 5 | 12.2 | 22.33663817 | 114.2067825 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:53:12 | 5 | 12.2 | 22.33663817 | 114.2067825 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:53:12 | 5 | 12.2 | 22.33663817 | 114.2067825 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:53:12 | 5 | 12.2 | 22.33663817 | 114.2067825 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:53:13 | 5 | 17.3 | 22.33665067 | 114.206766 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:53:13 | 5 | 17.3 | 22.33665067 | 114.206766 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:53:13 | 5 | 17.3 | 22.33665067 | 114.206766 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:53:13 | 5 | 17.3 | 22.33665067 | 114.206766 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:54:50 | 4.7 | 13.3 | 22.33919117 | 114.20244 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:54:50 | 4.7 | 13.3 | 22.33919117 | 114.20244 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:54:50 | 4.7 | 13.3 | 22.33919117 | 114.20244 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:54:50 | 4.7 | 13.3 | 22.33919117 | 114.20244 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:54:51 | 4.8 | 18.1 | 22.33920833 | 114.2024245 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:54:51 | 4.8 | 18.1 | 22.33920833 | 114.2024245 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:54:51 | 4.8 | 18.1 | 22.33920833 | 114.2024245 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:54:51 | 4.8 | 18.1 | 22.33920833 | 114.2024245 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:56:14 | 4 | 18 | 22.341622 | 114.1947643 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:56:14 | 4 | 18 | 22.341622 | 114.1947643 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:56:14 | 4 | 18 | 22.341622 | 114.1947643 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:56:14 | 4 | 18 | 22.341622 | 114.1947643 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:57:19 | 4.8 | 16.1 | 22.341611 | 114.1942703 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:57:19 | 4.8 | 16.1 | 22.341611 | 114.1942703 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:57:19 | 4.8 | 16.1 | 22.341611 | 114.1942703 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:57:19 | 4.8 | 16.1 | 22.341611 | 114.1942703 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:59:37 | 4 | 14.4 | 22.34236417 | 114.1882527 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:59:37 | 4 | 14.4 | 22.34236417 | 114.1882527 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:59:37 | 4 | 14.4 | 22.34236417 | 114.1882527 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 21:59:37 | 4 | 14.4 | 22.34236417 | 114.1882527 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:07:42 | 4.1 | 11.9 | 22.36876967 | 114.1788557 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:07:42 | 4.1 | 11.9 | 22.36876967 | 114.1788557 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:07:42 | 4.1 | 11.9 | 22.36876967 | 114.1788557 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:07:42 | 4.1 | 11.9 | 22.36876967 | 114.1788557 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:07:43 | 4.6 | 16.6 | 22.3687605 | 114.1788337 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:07:43 | 4.6 | 16.6 | 22.3687605 | 114.1788337 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:07:43 | 4.6 | 16.6 | 22.3687605 | 114.1788337 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:09:09 | 4.6 | 12.8 | 22.36845817 | 114.178096 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:09:09 | 4.6 | 12.8 | 22.36845817 | 114.178096 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:09:09 | 4.6 | 12.8 | 22.36845817 | 114.178096 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:09:09 | 4.6 | 12.8 | 22.36845817 | 114.178096 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:09:10 | 4.7 | 17.5 | 22.36844933 | 114.178074 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:09:10 | 4.7 | 17.5 | 22.36844933 | 114.178074 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:09:10 | 4.7 | 17.5 | 22.36844933 | 114.178074 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:09:10 | 4.7 | 17.5 | 22.36844933 | 114.178074 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:10:45 | 4.3 | 8.8 | 22.3674285 | 114.1763547 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:10:45 | 4.3 | 8.8 | 22.3674285 | 114.1763547 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:10:45 | 4.3 | 8.8 | 22.3674285 | 114.1763547 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:10:45 | 4.3 | 8.8 | 22.3674285 | 114.1763547 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:12:17 | 5.3 | 11.5 | 22.36544983 | 114.1753965 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:12:17 | 5.3 | 11.5 | 22.36544983 | 114.1753965 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:12:17 | 5.3 | 11.5 | 22.36544983 | 114.1753965 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:12:17 | 5.3 | 11.5 | 22.36544983 | 114.1753965 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:13:49 | 6 | 17.2 | 22.3628695 | 114.1724197 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:13:49 | 6 | 17.2 | 22.3628695 | 114.1724197 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:13:49 | 6 | 17.2 | 22.3628695 | 114.1724197 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:13:49 | 6 | 17.2 | 22.3628695 | 114.1724197 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:13:50 | 5.2 | 22.5 | 22.36287067 | 114.1723868 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:13:50 | 5.2 | 22.5 | 22.36287067 | 114.1723868 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:13:50 | 5.2 | 22.5 | 22.36287067 | 114.1723868 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:13:50 | 5.2 | 22.5 | 22.36287067 | 114.1723868 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:14:11 | 4.2 | 24.2 | 22.36367683 | 114.1713343 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:14:11 | 4.2 | 24.2 | 22.36367683 | 114.1713343 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:14:11 | 4.2 | 24.2 | 22.36367683 | 114.1713343 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:14:11 | 4.2 | 24.2 | 22.36367683 | 114.1713343 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:06 | 5.1 | 5.1 | 22.3655575 | 114.1730158 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:06 | 5.1 | 5.1 | 22.3655575 | 114.1730158 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:06 | 5.1 | 5.1 | 22.3655575 | 114.1730158 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:06 | 5.1 | 5.1 | 22.3655575 | 114.1730158 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:07 | 4.5 | 9.7 | 22.36557567 | 114.1730208 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:07 | 4.5 | 9.7 | 22.36557567 | 114.1730208 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:07 | 4.5 | 9.7 | 22.36557567 | 114.1730208 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:07 | 4.5 | 9.7 | 22.36557567 | 114.1730208 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:08 | 5.9 | 15.6 | 22.3655825 | 114.173033 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:08 | 5.9 | 15.6 | 22.3655825 | 114.173033 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:08 | 5.9 | 15.6 | 22.3655825 | 114.173033 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:08 | 5.9 | 15.6 | 22.3655825 | 114.173033 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:09 | 5.5 | 21.2 | 22.3655945 | 114.1730575 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:09 | 5.5 | 21.2 | 22.3655945 | 114.1730575 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:09 | 5.5 | 21.2 | 22.3655945 | 114.1730575 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:09 | 5.5 | 21.2 | 22.3655945 | 114.1730575 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:46 | 4.6 | 7.1 | 22.36750983 | 114.1742887 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:46 | 4.6 | 7.1 | 22.36750983 | 114.1742887 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:46 | 4.6 | 7.1 | 22.36750983 | 114.1742887 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:46 | 4.6 | 7.1 | 22.36750983 | 114.1742887 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:47 | 5.3 | 12.4 | 22.36751467 | 114.1742913 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:47 | 5.3 | 12.4 | 22.36751467 | 114.1742913 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:47 | 5.3 | 12.4 | 22.36751467 | 114.1742913 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:47 | 5.3 | 12.4 | 22.36751467 | 114.1742913 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:49 | 4.1 | 22.4 | 22.36756 | 114.1743078 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:49 | 4.1 | 22.4 | 22.36756 | 114.1743078 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:49 | 4.1 | 22.4 | 22.36756 | 114.1743078 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:15:49 | 4.1 | 22.4 | 22.36756 | 114.1743078 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:35 | 4.2 | 9.5 | 22.36884883 | 114.1750555 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:35 | 4.2 | 9.5 | 22.36884883 | 114.1750555 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:35 | 4.2 | 9.5 | 22.36884883 | 114.1750555 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:35 | 4.2 | 9.5 | 22.36884883 | 114.1750555 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:36 | 6.1 | 15.6 | 22.36885867 | 114.1750652 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:36 | 6.1 | 15.6 | 22.36885867 | 114.1750652 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:36 | 6.1 | 15.6 | 22.36885867 | 114.1750652 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:36 | 6.1 | 15.6 | 22.36885867 | 114.1750652 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:37 | 5.6 | 21.3 | 22.368876 | 114.1750855 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:37 | 5.6 | 21.3 | 22.368876 | 114.1750855 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:37 | 5.6 | 21.3 | 22.368876 | 114.1750855 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:16:37 | 5.6 | 21.3 | 22.368876 | 114.1750855 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:17:25 | 4.4 | 18.7 | 22.371457 | 114.1783535 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:17:25 | 4.4 | 18.7 | 22.371457 | 114.1783535 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:17:25 | 4.4 | 18.7 | 22.371457 | 114.1783535 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:17:25 | 4.4 | 18.7 | 22.371457 | 114.1783535 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:27 | 4.8 | 10.9 | 22.3726795 | 114.177584 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:27 | 4.8 | 10.9 | 22.3726795 | 114.177584 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:27 | 4.8 | 10.9 | 22.3726795 | 114.177584 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:27 | 4.8 | 10.9 | 22.3726795 | 114.177584 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:28 | 5.6 | 16.6 | 22.3726905 | 114.177574 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:28 | 5.6 | 16.6 | 22.3726905 | 114.177574 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:28 | 5.6 | 16.6 | 22.3726905 | 114.177574 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:28 | 5.6 | 16.6 | 22.3726905 | 114.177574 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:29 | 4.4 | 21 | 22.372712 | 114.1775542 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:29 | 4.4 | 21 | 22.372712 | 114.1775542 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:29 | 4.4 | 21 | 22.372712 | 114.1775542 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:18:29 | 4.4 | 21 | 22.372712 | 114.1775542 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:11 | 4.5 | 7.8 | 22.37404633 | 114.1766515 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:11 | 4.5 | 7.8 | 22.37404633 | 114.1766515 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:11 | 4.5 | 7.8 | 22.37404633 | 114.1766515 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:11 | 4.5 | 7.8 | 22.37404633 | 114.1766515 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:12 | 5.3 | 13.2 | 22.37405417 | 114.1766457 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:12 | 5.3 | 13.2 | 22.37405417 | 114.1766457 |
| 69496 | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:12 | 5.3 | 13.2 | 22.37405417 | 114.1766457 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-----------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:12 | 5.3 | 13.2 | 22.37405417 | 114.1766457 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:50 | 4.4 | 9.4 | 22.37482133 | 114.1776408 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:50 | 4.4 | 9.4 | 22.37482133 | 114.1776408 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:50 | 4.4 | 9.4 | 22.37482133 | 114.1776408 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:50 | 4.4 | 9.4 | 22.37482133 | 114.1776408 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:51 | 4.6 | 14 | 22.37483667 | 114.1776458 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:51 | 4.6 | 14 | 22.37483667 | 114.1776458 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:51 | 4.6 | 14 | 22.37483667 | 114.1776458 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:20:51 | 4.6 | 14 | 22.37483667 | 114.1776458 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:29 | 4 | 5.7 | 22.37543567 | 114.177668 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:29 | 4 | 5.7 | 22.37543567 | 114.177668 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:29 | 4 | 5.7 | 22.37543567 | 114.177668 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:29 | 4 | 5.7 | 22.37543567 | 114.177668 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:30 | 5.1 | 10.8 | 22.37544267 | 114.1776645 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:30 | 5.1 | 10.8 | 22.37544267 | 114.1776645 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:30 | 5.1 | 10.8 | 22.37544267 | 114.1776645 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:30 | 5.1 | 10.8 | 22.37544267 | 114.1776645 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:31 | 5.4 | 16.3 | 22.37545833 | 114.1776545 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:31 | 5.4 | 16.3 | 22.37545833 | 114.1776545 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:31 | 5.4 | 16.3 | 22.37545833 | 114.1776545 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:31 | 5.4 | 16.3 | 22.37545833 | 114.1776545 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:32 | 4.6 | 21 | 22.37548283 | 114.1776365 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:32 | 4.6 | 21 | 22.37548283 | 114.1776365 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:32 | 4.6 | 21 | 22.37548283 | 114.1776365 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:21:32 | 4.6 | 21 | 22.37548283 | 114.1776365 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:14 | 4.2 | 8.4 | 22.37573417 | 114.1759162 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:14 | 4.2 | 8.4 | 22.37573417 | 114.1759162 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:14 | 4.2 | 8.4 | 22.37573417 | 114.1759162 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:14 | 4.2 | 8.4 | 22.37573417 | 114.1759162 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:15 | 5.6 | 14 | 22.3757285 | 114.1759078 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:15 | 5.6 | 14 | 22.3757285 | 114.1759078 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:15 | 5.6 | 14 | 22.3757285 | 114.1759078 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:15 | 5.6 | 14 | 22.3757285 | 114.1759078 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:16 | 5 | 19.1 | 22.37571517 | 114.1758887 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:16 | 5 | 19.1 | 22.37571517 | 114.1758887 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:16 | 5 | 19.1 | 22.37571517 | 114.1758887 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:23:16 | 5 | 19.1 | 22.37571517 | 114.1758887 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:19 | 4.8 | 9.2 | 22.37731533 | 114.173951 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:19 | 4.8 | 9.2 | 22.37731533 | 114.173951 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:19 | 4.8 | 9.2 | 22.37731533 | 114.173951 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:19 | 4.8 | 9.2 | 22.37731533 | 114.173951 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:20 | 5.3 | 14.6 | 22.3773255 | 114.1739483 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:20 | 5.3 | 14.6 | 22.3773255 | 114.1739483 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:20 | 5.3 | 14.6 | 22.3773255 | 114.1739483 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:20 | 5.3 | 14.6 | 22.3773255 | 114.1739483 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:54 | 5.5 | 11.3 | 22.37729433 | 114.1730107 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:54 | 5.5 | 11.3 | 22.37729433 | 114.1730107 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:54 | 5.5 | 11.3 | 22.37729433 | 114.1730107 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:54 | 5.5 | 11.3 | 22.37729433 | 114.1730107 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:55 | 5.4 | 16.7 | 22.377291 | 114.1729943 |
| 69496 | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:55 | 5.4 | 16.7 | 22.377291 | 114.1729943 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|---------------------|---------------------|---------------------|---------------------|----------|-----------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:55 | 5.4 | 16.7 | 22.377291 | 114.1729943 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:55 | 5.4 | 16.7 | 22.377291 | 114.1729943 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:56 | 4.9 | 21.7 | 22.377286 | 114.172965 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:56 | 4.9 | 21.7 | 22.377286 | 114.172965 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:56 | 4.9 | 21.7 | 22.377286 | 114.172965 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:24:56 | 4.9 | 21.7 | 22.377286 | 114.172965 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:25:41 | 4.5 | 15.6 | 22.37620933 | 114.1703902 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:25:41 | 4.5 | 15.6 | 22.37620933 | 114.1703902 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:25:41 | 4.5 | 15.6 | 22.37620933 | 114.1703902 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:25:41 | 4.5 | 15.6 | 22.37620933 | 114.1703902 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:26:38 | 4.6 | 10.9 | 22.37600067 | 114.170854 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:26:38 | 4.6 | 10.9 | 22.37600067 | 114.170854 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:26:38 | 4.6 | 10.9 | 22.37600067 | 114.170854 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:26:38 | 4.6 | 10.9 | 22.37600067 | 114.170854 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:00 | 5.2 | 20.9 | 22.37652017 | 114.1711457 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:00 | 5.2 | 20.9 | 22.37652017 | 114.1711457 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:00 | 5.2 | 20.9 | 22.37652017 | 114.1711457 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:00 | 5.2 | 20.9 | 22.37652017 | 114.1711457 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:50 | 5.3 | 9.8 | 22.377457 | 114.17382 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:50 | 5.3 | 9.8 | 22.377457 | 114.17382 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:50 | 5.3 | 9.8 | 22.377457 | 114.17382 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:50 | 5.3 | 9.8 | 22.377457 | 114.17382 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:51 | 6.3 | 16.2 | 22.37746 | 114.1738305 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:51 | 6.3 | 16.2 | 22.37746 | 114.1738305 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:51 | 6.3 | 16.2 | 22.37746 | 114.1738305 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:51 | 6.3 | 16.2 | 22.37746 | 114.1738305 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:52 | 5.3 | 21.6 | 22.377465 | 114.1738558 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:52 | 5.3 | 21.6 | 22.377465 | 114.1738558 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:52 | 5.3 | 21.6 | 22.377465 | 114.1738558 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | KT.FRY | 2018-07-27 21:34:16 | 2018-07-27 21:36:00 | 2018-07-27 22:27:52 | 5.3 | 21.6 | 22.377465 | 114.1738558 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:29:47 | 4.9 | 6.9 | 22.3777505 | 114.1750575 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:29:47 | 4.9 | 6.9 | 22.3777505 | 114.1750575 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:29:47 | 4.9 | 6.9 | 22.3777505 | 114.1750575 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:29:47 | 4.9 | 6.9 | 22.3777505 | 114.1750575 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:25 | 5.3 | 16 | 22.37771167 | 114.174803 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:25 | 5.3 | 16 | 22.37771167 | 114.174803 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:25 | 5.3 | 16 | 22.37771167 | 114.174803 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:25 | 5.3 | 16 | 22.37771167 | 114.174803 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:54 | 4.6 | 4.6 | 22.376907 | 114.1749415 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:54 | 4.6 | 4.6 | 22.376907 | 114.1749415 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:54 | 4.6 | 4.6 | 22.376907 | 114.1749415 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:54 | 4.6 | 4.6 | 22.376907 | 114.1749415 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:55 | 5.4 | 10 | 22.3769025 | 114.1749427 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:55 | 5.4 | 10 | 22.3769025 | 114.1749427 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:55 | 5.4 | 10 | 22.3769025 | 114.1749427 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:55 | 5.4 | 10 | 22.3769025 | 114.1749427 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:56 | 6.3 | 16.4 | 22.37689133 | 114.1749492 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:56 | 6.3 | 16.4 | 22.37689133 | 114.1749492 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:56 | 6.3 | 16.4 | 22.37689133 | 114.1749492 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:56 | 6.3 | 16.4 | 22.37689133 | 114.1749492 |
| 69496 | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:57 | 4.7 | 21.1 | 22.376869 | 114.1749628 | |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:57 | 4.7 | 21.1 | 22.376869 | 114.1749628 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:57 | 4.7 | 21.1 | 22.376869 | 114.1749628 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:30:57 | 4.7 | 21.1 | 22.376869 | 114.1749628 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:37 | 5.2 | 5.2 | 22.37595267 | 114.1755043 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:37 | 5.2 | 5.2 | 22.37595267 | 114.1755043 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:37 | 5.2 | 5.2 | 22.37595267 | 114.1755043 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:37 | 5.2 | 5.2 | 22.37595267 | 114.1755043 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:38 | 5.7 | 10.9 | 22.37595333 | 114.1755035 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:38 | 5.7 | 10.9 | 22.37595333 | 114.1755035 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:38 | 5.7 | 10.9 | 22.37595333 | 114.1755035 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:39 | 5.9 | 16.9 | 22.37594083 | 114.1755112 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:39 | 5.9 | 16.9 | 22.37594083 | 114.1755112 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:39 | 5.9 | 16.9 | 22.37594083 | 114.1755112 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:39 | 5.9 | 16.9 | 22.37594083 | 114.1755112 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:40 | 4.5 | 21.5 | 22.3759155 | 114.1755273 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:40 | 4.5 | 21.5 | 22.3759155 | 114.1755273 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:40 | 4.5 | 21.5 | 22.3759155 | 114.1755273 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:31:40 | 4.5 | 21.5 | 22.3759155 | 114.1755273 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:40 | 5.2 | 6.3 | 22.37179067 | 114.1787378 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:40 | 5.2 | 6.3 | 22.37179067 | 114.1787378 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:40 | 5.2 | 6.3 | 22.37179067 | 114.1787378 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:40 | 5.2 | 6.3 | 22.37179067 | 114.1787378 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:41 | 5.7 | 12.1 | 22.37178867 | 114.1787413 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:41 | 5.7 | 12.1 | 22.37178867 | 114.1787413 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:41 | 5.7 | 12.1 | 22.37178867 | 114.1787413 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:41 | 5.7 | 12.1 | 22.37178867 | 114.1787413 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:42 | 6.5 | 18.6 | 22.37178083 | 114.1787563 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:42 | 6.5 | 18.6 | 22.37178083 | 114.1787563 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:42 | 6.5 | 18.6 | 22.37178083 | 114.1787563 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:42 | 6.5 | 18.6 | 22.37178083 | 114.1787563 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:43 | 4.4 | 23 | 22.37176667 | 114.178785 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:43 | 4.4 | 23 | 22.37176667 | 114.178785 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:43 | 4.4 | 23 | 22.37176667 | 114.178785 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:32:43 | 4.4 | 23 | 22.37176667 | 114.178785 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:33:58 | 5.5 | 14.3 | 22.36642783 | 114.1808025 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:33:58 | 5.5 | 14.3 | 22.36642783 | 114.1808025 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:33:58 | 5.5 | 14.3 | 22.36642783 | 114.1808025 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:33:58 | 5.5 | 14.3 | 22.36642783 | 114.1808025 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:33:59 | 4.8 | 19.1 | 22.36640683 | 114.1808015 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:33:59 | 4.8 | 19.1 | 22.36640683 | 114.1808015 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:33:59 | 4.8 | 19.1 | 22.36640683 | 114.1808015 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:33:59 | 4.8 | 19.1 | 22.36640683 | 114.1808015 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:22 | 4.9 | 8.6 | 22.31415167 | 114.2170498 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:22 | 4.9 | 8.6 | 22.31415167 | 114.2170498 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:22 | 4.9 | 8.6 | 22.31415167 | 114.2170498 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:22 | 4.9 | 8.6 | 22.31415167 | 114.2170498 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:23 | 5.6 | 14.2 | 22.31414133 | 114.2170598 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:23 | 5.6 | 14.2 | 22.31414133 | 114.2170598 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:23 | 5.6 | 14.2 | 22.31414133 | 114.2170598 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:23 | 5.6 | 14.2 | 22.31414133 | 114.2170598 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:24 | 6.2 | 20.4 | 22.31411967 | 114.2170827 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:24 | 6.2 | 20.4 | 22.31411967 | 114.2170827 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:24 | 6.2 | 20.4 | 22.31411967 | 114.2170827 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:24 | 6.2 | 20.4 | 22.31411967 | 114.2170827 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:25 | 4.1 | 24.6 | 22.31409533 | 114.2171114 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:25 | 4.1 | 24.6 | 22.31409533 | 114.2171114 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:25 | 4.1 | 24.6 | 22.31409533 | 114.2171114 |
| 69496 | | STD | 2018-07-27 | 80 | UV7724 | 80 | MEILAM | 2018-07-27 21:34:16 | 2018-07-27 22:28:00 | 2018-07-27 22:45:25 | 4.1 | 24.6 | 22.31409533 | 114.2171114 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:00:30 | 4.5 | 9 | 22.37781483 | 114.1748168 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:01:53 | 5.3 | 9.9 | 22.37679417 | 114.1750515 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:01:59 | 4.7 | 19.2 | 22.37664033 | 114.1750502 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:02:00 | 4.1 | 23.4 | 22.37661667 | 114.1750042 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:03:50 | 4.5 | 10.1 | 22.37613567 | 114.1708008 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:04:09 | 4.4 | 20.7 | 22.37665383 | 114.1709852 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:05:28 | 5.1 | 8.8 | 22.377506 | 114.1737312 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:05:29 | 5.4 | 14.3 | 22.37750733 | 114.1737477 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:05:30 | 4.8 | 19.1 | 22.37751133 | 114.173778 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:06:17 | 4.5 | 8.5 | 22.37590483 | 114.1755508 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:06:18 | 5.6 | 14.2 | 22.37589317 | 114.175559 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:06:19 | 5.3 | 19.5 | 22.37587 | 114.1755742 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:07:52 | 4.9 | 9.3 | 22.3743315 | 114.17653 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:07:53 | 5.7 | 15 | 22.37431683 | 114.176541 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:07:54 | 5.3 | 20.3 | 22.37429217 | 114.1765593 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:08:27 | 5 | 6.4 | 22.373797 | 114.1769848 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:08:28 | 5.3 | 11.7 | 22.37378967 | 114.1769872 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:08:29 | 5.8 | 17.6 | 22.37376983 | 114.1769947 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:08:30 | 4.6 | 22.2 | 22.37373767 | 114.177008 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:09:19 | 5.4 | 11.2 | 22.37227633 | 114.1780495 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:10:06 | 4.8 | 15.4 | 22.37170683 | 114.1785885 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:10:07 | 5.1 | 20.5 | 22.37169367 | 114.178619 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:12:43 | 5.1 | 10.9 | 22.36860283 | 114.1751337 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:12:44 | 5.2 | 16.2 | 22.36858833 | 114.1751192 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:12:45 | 4.3 | 20.5 | 22.36856617 | 114.1750933 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:13:36 | 5 | 10.4 | 22.3680515 | 114.1746842 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:13:37 | 5.6 | 16 | 22.36803583 | 114.174672 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:13:38 | 4.5 | 20.6 | 22.36800883 | 114.1746537 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:15:17 | 4.6 | 10.5 | 22.364064 | 114.1718573 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:15:18 | 5.7 | 16.2 | 22.36404867 | 114.1718427 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:16:37 | 5.8 | 10.7 | 22.36370133 | 114.1715273 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:16:38 | 5.4 | 16.1 | 22.36368717 | 114.1715148 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:16:49 | 4.2 | 24.2 | 22.363328 | 114.1714095 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:17:53 | 4.4 | 7.2 | 22.36384967 | 114.1738023 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:17:54 | 5 | 12.2 | 22.36385633 | 114.1738118 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:17:55 | 5.7 | 18 | 22.36387083 | 114.173832 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:17:56 | 4.2 | 22.2 | 22.3638925 | 114.173864 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:18:56 | 4.8 | 12.3 | 22.36540883 | 114.175215 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:18:57 | 5.6 | 17.9 | 22.36542483 | 114.175235 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:18:58 | 4.6 | 22.6 | 22.36544917 | 114.1752667 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:20:39 | 4.4 | 4.4 | 22.36630617 | 114.176411 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:20:40 | 4.6 | 9 | 22.3663085 | 114.1764238 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:21:54 | 5.1 | 9 | 22.367004 | 114.176291 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:21:55 | 5.6 | 14.6 | 22.367022 | 114.1762843 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:21:56 | 5.1 | 19.7 | 22.3670525 | 114.1762708 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:22:45 | 5.4 | 7.8 | 22.36856767 | 114.1781515 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:22:46 | 5 | 12.9 | 22.3685745 | 114.1781622 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:23:53 | 4.2 | 10.2 | 22.36903783 | 114.179201 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:23:54 | 5.1 | 15.4 | 22.36904083 | 114.1792108 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:23:55 | 4.5 | 19.9 | 22.36904367 | 114.1792317 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:24:25 | 4.9 | 10.7 | 22.36928933 | 114.1799418 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:24:26 | 4.8 | 15.5 | 22.36929333 | 114.179951 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:31:33 | 5.5 | 13.6 | 22.3422395 | 114.1900403 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:31:34 | 5.4 | 19 | 22.34222317 | 114.1900632 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:32:16 | 4.2 | 8.6 | 22.34183367 | 114.1918483 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:32:17 | 4.7 | 13.4 | 22.34183317 | 114.1918657 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:32:18 | 5.2 | 18.6 | 22.341831 | 114.1918955 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:33:17 | 4.9 | 12.9 | 22.34181233 | 114.1957413 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:33:18 | 5.2 | 18.2 | 22.34180883 | 114.1957688 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:36:45 | 4.3 | 13.6 | 22.33664983 | 114.2071633 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:36:46 | 4.4 | 18 | 22.33662517 | 114.2071785 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:36:56 | 4 | 23.5 | 22.336306 | 114.2073948 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:37:36 | 4.9 | 7.8 | 22.33354733 | 114.2079248 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:37:37 | 5.4 | 13.2 | 22.33353483 | 114.2079135 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:40:16 | 4.1 | 10 | 22.32532583 | 114.2143112 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:40:17 | 4.9 | 14.9 | 22.32531383 | 114.2143058 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:40:18 | 4.8 | 19.7 | 22.32529483 | 114.2142967 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:42:22 | 4.5 | 10 | 22.31777817 | 114.215132 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:42:23 | 4.5 | 14.5 | 22.31776283 | 114.2151438 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:42:49 | 4.4 | 9.4 | 22.3174705 | 114.2153172 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:42:50 | 4.7 | 14.1 | 22.31745533 | 114.2153252 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:44:18 | 4.6 | 9.3 | 22.31447933 | 114.22082 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:44:41 | 4.4 | 7.5 | 22.31440483 | 114.2211137 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:44:42 | 5.3 | 12.9 | 22.31440167 | 114.221127 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:44:43 | 5 | 17.9 | 22.31439 | 114.221152 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:45:08 | 4.8 | 17.1 | 22.31385133 | 114.2223978 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:46:40 | 6 | 12.5 | 22.31300317 | 114.2249283 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:46:41 | 6 | 18.5 | 22.31299083 | 114.2249472 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:46:42 | 4 | 22.6 | 22.31297433 | 114.2249805 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:47:27 | 5.5 | 7 | 22.31176367 | 114.2262965 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:47:28 | 5.8 | 12.9 | 22.31176067 | 114.2262845 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:47:29 | 4.3 | 17.2 | 22.31174867 | 114.2262588 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:47:58 | 5 | 7.9 | 22.31119383 | 114.2257012 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:49:14 | 4.3 | 12 | 22.30983983 | 114.224077 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:49:15 | 5.1 | 17.2 | 22.30982717 | 114.2240508 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:49:16 | 4.9 | 22.1 | 22.30981283 | 114.22401 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:50:25 | 5.4 | 5.4 | 22.3095705 | 114.2235905 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:50:26 | 5.2 | 10.6 | 22.3095645 | 114.2235755 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 14:57:36 | 2018-07-28 15:00:00 | 2018-07-28 15:52:21 | 5.2 | 12 | 22.3071715 | 114.2218833 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 16:01:43 | NULL | 2018-07-28 16:03:58 | 4.5 | 10.3 | 22.30789633 | 114.221893 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:04:38 | 4.3 | 8.7 | 22.30854933 | 114.2220237 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:04:40 | 4.4 | 17.2 | 22.30858533 | 114.222042 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:07:48 | 4.3 | 5.9 | 22.30688517 | 114.2240218 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:07:49 | 5.1 | 11 | 22.30688217 | 114.2240327 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:07:50 | 5.4 | 16.5 | 22.30687733 | 114.2240592 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:07:51 | 5.3 | 21.8 | 22.30688283 | 114.2241097 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:08:28 | 5.3 | 13.8 | 22.30799067 | 114.2256055 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:08:29 | 5.3 | 19.1 | 22.30800767 | 114.2256293 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:08:30 | 4.2 | 23.3 | 22.30803167 | 114.2256658 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:09:38 | 5 | 11.1 | 22.30897967 | 114.2284528 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:09:39 | 5.7 | 16.9 | 22.30899633 | 114.228467 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:09:40 | 4.9 | 21.9 | 22.309025 | 114.2284907 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:10:22 | 4.9 | 8.2 | 22.30989483 | 114.2289987 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:10:39 | 4.2 | 20 | 22.31032783 | 114.2292065 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:11:16 | 4.6 | 10.5 | 22.311654 | 114.2274067 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:11:42 | 4.8 | 6.6 | 22.31194967 | 114.2268308 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:11:43 | 5.8 | 12.4 | 22.31195 | 114.226817 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:11:44 | 6.1 | 18.6 | 22.3119545 | 114.226787 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:11:45 | 4.3 | 22.9 | 22.31196317 | 114.2267412 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:14:43 | 4.4 | 7.4 | 22.31443567 | 114.2213858 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:14:44 | 4.9 | 12.3 | 22.31443517 | 114.2213682 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:15:35 | 4 | 6.2 | 22.31532033 | 114.218823 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:15:36 | 4.5 | 10.7 | 22.31531633 | 114.2188108 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:15:37 | 5.5 | 16.2 | 22.31531783 | 114.218789 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:16:26 | 5 | 13.5 | 22.31666733 | 114.2158197 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:16:27 | 5.3 | 18.8 | 22.31668483 | 114.2158003 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:18:01 | 4.5 | 10.2 | 22.3221415 | 114.21431 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:18:03 | 4.5 | 19.9 | 22.32219133 | 114.2143133 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:19:16 | 4.9 | 12.3 | 22.32560617 | 114.214002 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:19:17 | 5.1 | 17.4 | 22.3256305 | 114.2140013 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:20:16 | 4.5 | 14 | 22.3287575 | 114.2118145 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:20:17 | 4.4 | 18.4 | 22.32877617 | 114.2117912 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:22:58 | 4.6 | 9.9 | 22.33399767 | 114.2080345 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:22:59 | 5.3 | 15.3 | 22.33401433 | 114.2080462 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:23:00 | 4.5 | 19.9 | 22.33401433 | 114.2080462 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:25:14 | 4.1 | 8.1 | 22.3391645 | 114.202616 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:25:46 | 4.9 | 14 | 22.339204 | 114.2025223 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:25:47 | 4.3 | 18.4 | 22.33921383 | 114.2025058 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:27:37 | 4.5 | 10 | 22.3417425 | 114.1942782 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:27:38 | 4.7 | 14.7 | 22.34174283 | 114.1942585 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:27:39 | 4.1 | 18.8 | 22.341745 | 114.194226 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:35:48 | 4.9 | 17 | 22.3687185 | 114.1805183 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:35:49 | 5.2 | 22.2 | 22.36875033 | 114.1804995 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:35:50 | 4.3 | 26.5 | 22.36875033 | 114.1804995 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:37:35 | 4.5 | 11.1 | 22.36849717 | 114.1780938 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:37:36 | 4.9 | 16.1 | 22.36849317 | 114.1780833 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:38:24 | 4.4 | 6.6 | 22.36765533 | 114.1766048 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:38:25 | 4.8 | 11.5 | 22.36765333 | 114.176605 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:38:26 | 4.6 | 16.2 | 22.36764733 | 114.1765963 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:39:42 | 4.5 | 10.2 | 22.36549067 | 114.175322 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:39:43 | 5.3 | 15.6 | 22.36548033 | 114.1753057 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:39:44 | 4.3 | 19.9 | 22.365461 | 114.175283 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:40:54 | 4.2 | 6.6 | 22.362897 | 114.1724795 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:40:55 | 5.2 | 11.9 | 22.36289583 | 114.1724765 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:40:56 | 6.1 | 18.1 | 22.362893 | 114.1724645 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:40:57 | 4.3 | 22.4 | 22.36289017 | 114.1724393 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:42:13 | 4.9 | 9.2 | 22.363354 | 114.1714215 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:42:14 | 5.2 | 14.4 | 22.36336567 | 114.1714083 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:42:15 | 4 | 18.5 | 22.36338617 | 114.1713857 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:43:16 | 5.3 | 13.6 | 22.36556267 | 114.1730347 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:43:17 | 5.9 | 19.5 | 22.36558017 | 114.173057 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:43:18 | 4.1 | 23.7 | 22.3656055 | 114.1730923 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:44:29 | 4.8 | 4.8 | 22.36749533 | 114.1743052 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:44:30 | 5.3 | 10.2 | 22.3675005 | 114.174308 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:44:31 | 5.6 | 15.8 | 22.3675005 | 114.174308 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:45:27 | 5.2 | 11.4 | 22.369021 | 114.1752588 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:45:28 | 6 | 17.4 | 22.3690395 | 114.1752718 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:45:29 | 4.8 | 22.3 | 22.36906933 | 114.1752937 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:46:24 | 4.2 | 10.7 | 22.37144 | 114.1783395 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:46:25 | 5 | 15.8 | 22.3714575 | 114.1783517 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:46:26 | 4.8 | 20.6 | 22.3714855 | 114.178369 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:47:01 | 4.5 | 8.4 | 22.3730595 | 114.1773752 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:47:26 | 5.6 | 15.6 | 22.37327467 | 114.1771585 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:47:27 | 4.5 | 20.2 | 22.37329817 | 114.1771545 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:48:13 | 5 | 10.2 | 22.374043 | 114.1766747 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:48:14 | 5.3 | 15.5 | 22.37404767 | 114.1766712 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:50:40 | 4.8 | 8.2 | 22.37602267 | 114.1771722 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:51:33 | 5.7 | 16.8 | 22.37569733 | 114.175977 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:51:34 | 4.6 | 21.5 | 22.37567617 | 114.1759475 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:52:37 | 4.5 | 7.9 | 22.3773065 | 114.1739615 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:52:38 | 5.4 | 13.3 | 22.3773085 | 114.1739612 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:53:09 | 4 | 6.1 | 22.377364 | 114.1730695 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:53:10 | 5 | 11.1 | 22.377363 | 114.1730682 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:53:11 | 5.5 | 16.7 | 22.37735933 | 114.173058 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:53:12 | 4.6 | 21.4 | 22.37735367 | 114.1730363 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:54:53 | 5.4 | 7.9 | 22.37644033 | 114.1719953 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:55:09 | 4.7 | 19.8 | 22.37651867 | 114.171585 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:56:17 | 7 | 12.6 | 22.3773865 | 114.1738162 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 16:01:43 | 2018-07-28 16:04:00 | 2018-07-28 16:56:18 | 5.1 | 17.7 | 22.37739117 | 114.1738202 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:07:03 | 6.6 | 6.6 | 22.37764883 | 114.175005 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:07:04 | 5.8 | 12.5 | 22.37764883 | 114.175005 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:08:31 | 5.7 | 5.7 | 22.37669133 | 114.1752278 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:10:17 | 5.9 | 5.9 | 22.37703283 | 114.1741298 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:10:18 | 5.7 | 11.6 | 22.37703283 | 114.1741298 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:12:23 | 4.4 | 7.2 | 22.37641533 | 114.1710958 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:12:26 | 4.8 | 18 | 22.3764575 | 114.1710898 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:12:27 | 4.1 | 22.2 | 22.37648867 | 114.1710947 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:12:58 | 4.9 | 4.9 | 22.3767365 | 114.1718577 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:13:00 | 5.5 | 14.7 | 22.3767385 | 114.1718628 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:13:01 | 5 | 19.7 | 22.3767405 | 114.1718797 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:14:05 | 5.6 | 8.1 | 22.37734933 | 114.1737495 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:14:06 | 6.2 | 14.4 | 22.37735417 | 114.1737497 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:14:07 | 5.4 | 19.9 | 22.37735983 | 114.1737618 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:14:54 | 5.1 | 9.6 | 22.3757955 | 114.1757012 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:14:55 | 5.9 | 15.6 | 22.37579167 | 114.175704 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:14:56 | 4.8 | 20.4 | 22.37577717 | 114.1757132 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:16:18 | 4.5 | 7.9 | 22.3737785 | 114.1769698 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:16:19 | 5 | 13 | 22.373778 | 114.1769703 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:16:20 | 5.5 | 18.6 | 22.37376767 | 114.1769758 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:18:07 | 4.9 | 4.9 | 22.3723605 | 114.1779838 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:18:38 | 4 | 15.3 | 22.3719985 | 114.17833 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:18:50 | 4.6 | 18.2 | 22.37174483 | 114.1785762 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:18:51 | 4.1 | 22.4 | 22.37172633 | 114.1786007 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:20:10 | 4.4 | 7.2 | 22.36867817 | 114.1750912 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:20:11 | 5.2 | 12.5 | 22.36867817 | 114.1750895 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:20:12 | 4.8 | 17.4 | 22.368671 | 114.1750803 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:20:13 | 4 | 21.4 | 22.3686545 | 114.175062 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:21:30 | 5 | 13.1 | 22.36419467 | 114.171935 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:21:31 | 5.1 | 18.2 | 22.3641835 | 114.1719258 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:22:49 | 4.9 | 9.1 | 22.36365817 | 114.1714303 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:22:50 | 4.9 | 14.1 | 22.363649 | 114.1714393 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:22:58 | 4.1 | 19.6 | 22.363425 | 114.1713462 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:24:10 | 4.3 | 7.8 | 22.36392133 | 114.1737423 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:24:11 | 5.3 | 13.2 | 22.36389917 | 114.1737612 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:24:12 | 5.6 | 18.8 | 22.3638925 | 114.1737812 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:24:59 | 4.3 | 5.8 | 22.3654055 | 114.175207 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:25:00 | 5.1 | 10.9 | 22.36540567 | 114.175207 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:25:01 | 4.7 | 15.6 | 22.36541317 | 114.1752132 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:25:48 | 4.5 | 10.6 | 22.366227 | 114.1761425 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:25:49 | 4.7 | 15.3 | 22.3662345 | 114.1761643 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:27:19 | 4 | 18.8 | 22.3669375 | 114.1763715 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:28:51 | 4.1 | 7.8 | 22.369053 | 114.1791828 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:28:52 | 5 | 12.8 | 22.36905583 | 114.1791975 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:28:53 | 5.5 | 18.4 | 22.369063 | 114.179223 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:30:09 | 5.1 | 10.5 | 22.36942767 | 114.1801033 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:30:10 | 5.9 | 16.5 | 22.3694325 | 114.1801145 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:32:10 | 4.2 | 10.8 | 22.364714 | 114.1812127 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:37:52 | 5.4 | 16.3 | 22.34277633 | 114.1863652 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:37:53 | 5.2 | 21.6 | 22.3427655 | 114.1863997 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:37:54 | 5 | 26.7 | 22.34275317 | 114.1864492 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:39:30 | 4.6 | 11.7 | 22.341876 | 114.191804 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:39:31 | 5.3 | 17.1 | 22.3418765 | 114.1918163 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:40:45 | 7.5 | 8.6 | 22.34182967 | 114.1956382 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:40:46 | 6.3 | 14.9 | 22.34182583 | 114.1956527 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:40:47 | 4.9 | 19.9 | 22.34180983 | 114.1956862 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:43:57 | 4.6 | 16.5 | 22.3364245 | 114.2073688 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:43:58 | 4.4 | 20.9 | 22.33637117 | 114.2073987 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:48:15 | 4.4 | 8.6 | 22.32557267 | 114.2142945 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:48:16 | 4.7 | 13.3 | 22.32556867 | 114.2142948 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:48:17 | 5.3 | 18.7 | 22.32555417 | 114.2142943 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:48:18 | 4.3 | 23.1 | 22.3255275 | 114.2142918 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:49:16 | 4.5 | 7.4 | 22.32121533 | 114.2147677 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:49:17 | 4.9 | 12.4 | 22.32120383 | 114.2147678 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:49:18 | 5.6 | 18 | 22.32118033 | 114.2147723 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:50:10 | 4.3 | 8.8 | 22.31768917 | 114.2152892 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:50:11 | 5.5 | 14.4 | 22.31767567 | 114.2152962 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:50:29 | 4.2 | 5.7 | 22.31751283 | 114.215412 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:50:30 | 4.8 | 10.6 | 22.31751267 | 114.215412 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:50:31 | 5.5 | 16.2 | 22.31748917 | 114.2154248 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:51:46 | 5.2 | 10.6 | 22.3156955 | 114.2182913 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:51:47 | 4.8 | 15.4 | 22.3156885 | 114.2183112 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:55:45 | 4.2 | 19.2 | 22.31307183 | 114.2251338 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:56:13 | 6 | 10.7 | 22.31262767 | 114.2261933 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:56:14 | 6.3 | 17 | 22.31262767 | 114.2261933 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:56:15 | 4.2 | 21.3 | 22.3126235 | 114.226248 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:57:11 | 4.6 | 10.5 | 22.311445 | 114.2259762 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:57:12 | 5 | 15.6 | 22.31144083 | 114.2259643 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:57:13 | 5.4 | 21 | 22.3114105 | 114.225916 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:57:47 | 4.1 | 18.9 | 22.31096883 | 114.2254245 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 17:03:36 | 2018-07-28 17:06:00 | 2018-07-28 17:58:39 | 4.6 | 20.9 | 22.30974817 | 114.223982 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 17:03:36 | NULL | 2018-07-28 18:00:03 | 5.2 | 12.9 | 22.30716233 | 114.2217525 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 17:03:36 | NULL | 2018-07-28 18:00:04 | 5.8 | 18.8 | 22.307174 | 114.2217455 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 17:03:36 | NULL | 2018-07-28 18:00:05 | 4.3 | 23.1 | 22.30719417 | 114.2217297 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:08:10 | 4.5 | 9.8 | 22.30794567 | 114.2217373 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:08:15 | 4.4 | 20.5 | 22.30806867 | 114.2218297 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:08:29 | 4.4 | 24.6 | 22.3086825 | 114.2219302 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:09:14 | 5 | 9.7 | 22.3077185 | 114.223322 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:09:15 | 5.5 | 15.3 | 22.30770583 | 114.2233342 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:09:51 | 5.2 | 9.9 | 22.30704783 | 114.2238908 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:10:38 | 4.3 | 8 | 22.30801467 | 114.2255447 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:10:39 | 5.1 | 13.2 | 22.308022 | 114.225557 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:10:40 | 5.7 | 18.9 | 22.30803633 | 114.2255802 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:11:21 | 5.8 | 11.6 | 22.309038 | 114.2271765 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:11:22 | 5.1 | 16.8 | 22.3090485 | 114.2271958 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:12:33 | 4.7 | 6.7 | 22.30893233 | 114.2284487 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:12:34 | 5.3 | 12 | 22.30894583 | 114.2284545 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:12:35 | 5.9 | 18 | 22.30896883 | 114.228469 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:12:36 | 4.8 | 22.8 | 22.30900333 | 114.2284937 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:13:23 | 4.7 | 9.1 | 22.30995567 | 114.229071 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:13:24 | 4 | 13.2 | 22.30996917 | 114.2290807 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:17:23 | 4.9 | 18.9 | 22.31183833 | 114.2266327 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:17:24 | 4.3 | 23.2 | 22.31184633 | 114.2266025 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:18:39 | 4.4 | 7.7 | 22.31317983 | 114.2240303 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:18:40 | 5 | 12.8 | 22.31317983 | 114.2240303 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:18:41 | 5.4 | 18.2 | 22.31319167 | 114.2239925 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:19:40 | 4.3 | 5.5 | 22.31422033 | 114.221281 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:19:59 | 4.7 | 21.3 | 22.31439717 | 114.2209032 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:20:35 | 4.8 | 17.5 | 22.31512633 | 114.218854 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:20:36 | 4.2 | 21.8 | 22.31514133 | 114.218816 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:21:33 | 5.3 | 14 | 22.31654783 | 114.215877 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:21:34 | 5.4 | 19.5 | 22.31655867 | 114.2158662 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:22:26 | 4.1 | 8.2 | 22.32006583 | 114.2145807 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:23:21 | 4.1 | 10.5 | 22.32212883 | 114.2143468 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:24:14 | 5 | 13.5 | 22.325604 | 114.2139535 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:24:15 | 5.3 | 18.9 | 22.32561867 | 114.2139545 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:27:20 | 4.9 | 8.9 | 22.33381217 | 114.207634 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:27:21 | 5 | 14 | 22.33381217 | 114.207634 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:28:33 | 5 | 11.7 | 22.33670117 | 114.2068392 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:28:34 | 4.5 | 16.2 | 22.336709 | 114.2068298 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:29:52 | 5.1 | 13.8 | 22.33920967 | 114.2024658 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:29:53 | 4.7 | 18.5 | 22.33921767 | 114.2024523 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:31:43 | 4.5 | 11.3 | 22.34165333 | 114.1942632 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:31:44 | 5 | 16.4 | 22.34165383 | 114.1942408 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:32:41 | 4.2 | 9.5 | 22.341578 | 114.1914953 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:32:42 | 5 | 14.6 | 22.34157883 | 114.1914762 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:32:43 | 4.1 | 18.8 | 22.34158233 | 114.1914442 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:34:07 | 4.8 | 8.8 | 22.34238167 | 114.1882803 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:34:08 | 5 | 13.9 | 22.34238217 | 114.1882772 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:34:09 | 4.4 | 18.3 | 22.3423845 | 114.1882625 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:41:47 | 5.3 | 8.2 | 22.3657115 | 114.1806775 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:41:48 | 5.6 | 13.8 | 22.365731 | 114.1806752 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:41:49 | 5.1 | 19 | 22.3657625 | 114.1806712 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:41:50 | 5 | 24 | 22.36580833 | 114.1806667 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:43:34 | 4.1 | 15.7 | 22.36860683 | 114.1783043 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:44:16 | 5.2 | 15.7 | 22.36850733 | 114.1780528 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:44:17 | 4.5 | 20.2 | 22.36849517 | 114.17802 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:45:49 | 5.2 | 13.6 | 22.36545233 | 114.1754237 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:45:50 | 4.6 | 18.3 | 22.36545233 | 114.1754237 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:47:07 | 4.7 | 4.7 | 22.36291183 | 114.1724802 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:47:08 | 4.3 | 9 | 22.36291 | 114.1724762 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:47:09 | 6.1 | 15.2 | 22.362904 | 114.1724605 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:47:10 | 5.3 | 20.5 | 22.3628965 | 114.1724303 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:48:42 | 5.5 | 5.5 | 22.36334117 | 114.1713573 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:48:43 | 5.4 | 11 | 22.36334533 | 114.1713533 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:48:44 | 4.4 | 15.4 | 22.36335783 | 114.1713365 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:48:52 | 4.6 | 22.2 | 22.363632 | 114.171252 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:49:18 | 5.2 | 8 | 22.3649315 | 114.172495 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:49:19 | 5.8 | 13.8 | 22.36494067 | 114.1725028 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:49:20 | 5.1 | 18.9 | 22.3649605 | 114.1725207 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:49:53 | 4.1 | 7 | 22.36556033 | 114.1730203 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:49:54 | 5 | 12 | 22.36556717 | 114.1730307 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:49:55 | 5.7 | 17.8 | 22.36557883 | 114.1730532 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:49:56 | 4.5 | 22.4 | 22.36559933 | 114.173085 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:50:43 | 4.4 | 8.3 | 22.36726283 | 114.1742483 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:50:44 | 5.3 | 13.6 | 22.36727633 | 114.174254 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:50:45 | 5.5 | 19.1 | 22.3673015 | 114.1742643 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:51:14 | 5.2 | 8.8 | 22.36881633 | 114.175077 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:51:15 | 6.1 | 15 | 22.368827 | 114.1750857 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:51:16 | 5.3 | 20.3 | 22.368849 | 114.1751038 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:52:34 | 5.1 | 6.4 | 22.37152633 | 114.178226 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:52:35 | 4.9 | 11.4 | 22.37153317 | 114.1782332 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:52:36 | 4.7 | 16.1 | 22.37155117 | 114.1782472 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:52:37 | 4.7 | 20.9 | 22.37158 | 114.178268 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:53:14 | 4.1 | 5.8 | 22.37261167 | 114.1776903 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:53:15 | 4.6 | 10.4 | 22.37261917 | 114.1776835 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:55:08 | 5.5 | 10.7 | 22.3738905 | 114.1767605 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:55:09 | 5.9 | 16.6 | 22.37390517 | 114.1767497 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:55:10 | 4.6 | 21.3 | 22.373933 | 114.1767307 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:56:17 | 4.3 | 7.6 | 22.374944 | 114.1776435 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:56:18 | 5.1 | 12.7 | 22.3749505 | 114.1776672 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 18:59:04 | 5 | 8.8 | 22.376296 | 114.1770755 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:00:06 | 4.7 | 10.4 | 22.37583467 | 114.1759737 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:00:07 | 5.2 | 15.6 | 22.3758235 | 114.1759567 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:00:08 | 4.8 | 20.5 | 22.3758055 | 114.1759287 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:01:20 | 5 | 8.5 | 22.37734717 | 114.173987 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:01:21 | 5 | 13.6 | 22.37733317 | 114.1739757 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:01:53 | 4.4 | 10.1 | 22.37719 | 114.1730568 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:01:54 | 5.8 | 16 | 22.37718833 | 114.173049 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:01:55 | 4.5 | 20.5 | 22.37718217 | 114.1730308 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:03:15 | 4.7 | 7.3 | 22.37585667 | 114.1707745 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:03:43 | 4.3 | 17.4 | 22.376448 | 114.1710062 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:03:44 | 4.2 | 21.6 | 22.37648517 | 114.1710183 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:05:09 | 4.9 | 6.3 | 22.377528 | 114.1737228 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:05:10 | 5.9 | 12.3 | 22.37753083 | 114.1737383 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:05:11 | 5.9 | 18.2 | 22.37753083 | 114.1737383 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:05:12 | 4.6 | 22.9 | 22.3775415 | 114.173809 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 18:06:23 | 2018-07-28 18:08:00 | 2018-07-28 19:05:51 | 4.2 | 16.2 | 22.3780365 | 114.1751212 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 18:06:23 | NULL | 2018-07-28 19:06:59 | 4.4 | 15.5 | 22.37774583 | 114.1749187 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 18:06:23 | NULL | 2018-07-28 19:07:52 | 4.4 | 6.4 | 22.3778495 | 114.1746552 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 18:06:23 | NULL | 2018-07-28 19:07:53 | 4.7 | 11.1 | 22.37784667 | 114.1746407 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 18:06:23 | NULL | 2018-07-28 19:07:54 | 4.9 | 16 | 22.377841 | 114.1746137 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 18:06:23 | NULL | 2018-07-28 19:09:23 | 5.2 | 7.4 | 22.37684217 | 114.1749888 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 18:06:23 | NULL | 2018-07-28 19:09:24 | 5.5 | 13 | 22.3768335 | 114.1749947 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 18:06:23 | NULL | 2018-07-28 19:09:29 | 4.8 | 19 | 22.37668017 | 114.175011 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 18:06:23 | NULL | 2018-07-28 19:09:30 | 4.5 | 23.5 | 22.37665633 | 114.1749738 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:21:27 | 5 | 5 | 22.37672733 | 114.1750387 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:21:28 | 4.5 | 9.6 | 22.37672717 | 114.175039 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:21:34 | 5.1 | 19.5 | 22.376581 | 114.1750298 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:21:35 | 4.1 | 23.7 | 22.37655817 | 114.1749898 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:23:08 | 4.5 | 8.8 | 22.37625033 | 114.170786 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:23:34 | 4.4 | 22.1 | 22.37671233 | 114.171015 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:23:55 | 4.7 | 7.2 | 22.3770205 | 114.171704 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:23:56 | 5.9 | 13.2 | 22.37702367 | 114.1717178 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:23:57 | 6.1 | 19.3 | 22.37702967 | 114.171746 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:23:58 | 4.5 | 23.8 | 22.37703883 | 114.1717898 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:25:03 | 5.2 | 11 | 22.37756383 | 114.1736867 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:25:04 | 6 | 17.1 | 22.37756667 | 114.1737085 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:25:05 | 5.1 | 22.2 | 22.37757017 | 114.1737468 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:25:48 | 5.3 | 6.4 | 22.3760265 | 114.1755243 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:25:49 | 5.7 | 12.1 | 22.376018 | 114.1755277 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:25:50 | 4.9 | 17.1 | 22.375998 | 114.1755403 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:26:59 | 4.9 | 8.4 | 22.373809 | 114.1770757 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:27:00 | 5.3 | 13.8 | 22.37379717 | 114.1770818 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:27:01 | 6.1 | 19.9 | 22.37377333 | 114.1770933 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:27:17 | 5 | 8.4 | 22.3730485 | 114.17754 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:27:18 | 6.1 | 14.6 | 22.373039 | 114.1775498 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:27:19 | 6 | 20.7 | 22.3730175 | 114.177568 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:27:46 | 4.6 | 11.5 | 22.3717335 | 114.1786325 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:27:47 | 5.3 | 16.8 | 22.37172017 | 114.1786518 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:27:48 | 4.7 | 21.5 | 22.37170117 | 114.1786845 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:28:45 | 5.5 | 5.5 | 22.36910983 | 114.175487 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:28:46 | 5.5 | 11.1 | 22.369106 | 114.1754828 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:28:47 | 5.8 | 16.9 | 22.3690925 | 114.1754687 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:28:48 | 4.4 | 21.4 | 22.369068 | 114.1754435 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:29:12 | 4.7 | 6.8 | 22.3686665 | 114.1751173 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:29:13 | 5.5 | 12.3 | 22.36865917 | 114.1751115 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:29:14 | 6.2 | 18.5 | 22.36864217 | 114.1750963 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:29:30 | 4.6 | 19.9 | 22.36800967 | 114.1746722 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:30:17 | 5.1 | 5.1 | 22.36535083 | 114.172986 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:30:18 | 4.6 | 9.8 | 22.365346 | 114.1729807 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:30:19 | 5.7 | 15.6 | 22.36533333 | 114.1729657 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:30:20 | 4 | 19.6 | 22.36531317 | 114.1729388 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:30:44 | 4.8 | 8.1 | 22.36509483 | 114.1727168 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:30:45 | 5.6 | 13.8 | 22.36507967 | 114.1727123 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:30:46 | 5.7 | 19.5 | 22.365057 | 114.1726985 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:32:03 | 4.5 | 7.5 | 22.36359183 | 114.1713783 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:32:04 | 4.1 | 11.6 | 22.36358183 | 114.1713692 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:32:11 | 4.4 | 18.9 | 22.36338533 | 114.1713393 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:32:12 | 4.4 | 23.3 | 22.36335083 | 114.171365 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:33:34 | 4.2 | 7.9 | 22.36450033 | 114.174403 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:33:35 | 5 | 13 | 22.3645105 | 114.174412 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:34:20 | 4.8 | 15.5 | 22.36545317 | 114.1752517 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:34:21 | 4.7 | 20.2 | 22.36547367 | 114.1752812 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:37:14 | 5.4 | 8.6 | 22.36696467 | 114.1762937 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:37:15 | 4.1 | 12.7 | 22.36697683 | 114.1762878 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:38:49 | 5.1 | 11.6 | 22.36876333 | 114.1784527 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:38:50 | 5.8 | 17.5 | 22.3687705 | 114.1784755 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:38:51 | 4.9 | 22.4 | 22.36878333 | 114.178513 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:39:24 | 4.7 | 12.8 | 22.36906583 | 114.1791845 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:39:25 | 5.6 | 18.5 | 22.36907067 | 114.1792098 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:39:26 | 4 | 22.5 | 22.36907617 | 114.1792515 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:40:35 | 4.9 | 11.9 | 22.366056 | 114.1808272 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:40:36 | 4.6 | 16.5 | 22.36603367 | 114.1808262 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:41:45 | 4.1 | 18.9 | 22.36394333 | 114.1808478 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:46:59 | 4.4 | 9.9 | 22.3418225 | 114.1917195 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:47:00 | 5.2 | 15.2 | 22.34182233 | 114.1917388 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:47:01 | 4.6 | 19.8 | 22.34182 | 114.1917722 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:47:59 | 5.4 | 10.8 | 22.34180633 | 114.1956223 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:48:00 | 5.4 | 16.2 | 22.34179033 | 114.1956502 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:48:01 | 4.7 | 21 | 22.34178567 | 114.1956872 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:49:23 | 5.9 | 15.2 | 22.33965167 | 114.2028208 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:49:24 | 4.8 | 20 | 22.33965167 | 114.2028208 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:50:53 | 4.8 | 17.7 | 22.336791 | 114.2070495 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:50:54 | 4.8 | 22.5 | 22.33676267 | 114.207077 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:53:18 | 4.6 | 15.8 | 22.325301 | 114.2143403 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:53:19 | 5.2 | 21 | 22.32526917 | 114.2143332 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:55:13 | 5 | 6.5 | 22.31576233 | 114.2177585 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:55:14 | 5.1 | 11.6 | 22.31575867 | 114.2177655 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:55:15 | 4.3 | 16 | 22.31574933 | 114.2177845 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:57:36 | 4.5 | 9.2 | 22.31327167 | 114.2244678 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 20:58:14 | 4.5 | 10.1 | 22.31304583 | 114.2246335 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 21:00:05 | 5 | 21 | 22.30973217 | 114.2238792 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 21:00:57 | 4.1 | 6.7 | 22.30943583 | 114.2235328 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 21:00:58 | 5.1 | 11.8 | 22.3094315 | 114.2235188 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 21:00:59 | 5.6 | 17.5 | 22.30942117 | 114.2234967 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 20:17:26 | 2018-07-28 20:20:00 | 2018-07-28 21:01:00 | 4.7 | 22.2 | 22.30941567 | 114.2234482 |
| 69496 | | STD | NULL | NULL | UY6011 | NULL | NULL | 2018-07-28 21:17:27 | NULL | 2018-07-28 21:19:54 | 4.8 | 8.4 | 22.30781433 | 114.2218082 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:21:49 | 5.3 | 5.3 | 22.30897517 | 114.2270778 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:21:50 | 4.8 | 10.1 | 22.30898167 | 114.2270818 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:23:18 | 4.8 | 12.2 | 22.30898067 | 114.2284405 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:23:19 | 5.7 | 18 | 22.3090005 | 114.2284562 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:23:20 | 5.5 | 23.5 | 22.309032 | 114.2284803 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:23:49 | 4.3 | 8 | 22.309877 | 114.228952 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:23:50 | 4.5 | 12.5 | 22.3098905 | 114.228961 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:24:04 | 4.9 | 19.9 | 22.31034583 | 114.2291252 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:24:05 | 4.4 | 24.4 | 22.31037583 | 114.2290915 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:24:58 | 5.2 | 6.4 | 22.31169917 | 114.226588 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:24:59 | 5.9 | 12.3 | 22.3117005 | 114.2265777 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:25:00 | 5 | 17.4 | 22.3117075 | 114.2265538 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:25:01 | 4.8 | 22.2 | 22.31171917 | 114.226517 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:26:18 | 4.9 | 9 | 22.3130255 | 114.2239892 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:26:19 | 5.1 | 14.2 | 22.313036 | 114.2239757 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:26:20 | 5.5 | 19.7 | 22.3130525 | 114.22395 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:26:36 | 5.2 | 11 | 22.31333067 | 114.2233392 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:26:37 | 6.1 | 17.1 | 22.31333883 | 114.2233187 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:26:38 | 4.7 | 21.8 | 22.31337383 | 114.2232867 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:27:18 | 4.3 | 7.4 | 22.314208 | 114.2212582 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:27:19 | 5 | 12.4 | 22.31421067 | 114.2212448 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:27:20 | 5.5 | 18 | 22.31421917 | 114.2212267 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:27:21 | 4.1 | 22.2 | 22.31423617 | 114.2211938 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:28:06 | 4.5 | 9.6 | 22.3151215 | 114.2188235 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:29:40 | 5 | 13.1 | 22.32017067 | 114.214497 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:29:41 | 5.1 | 18.3 | 22.3201825 | 114.2144982 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:29:42 | 4.1 | 22.5 | 22.32024367 | 114.2145067 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:30:30 | 4.1 | 5.2 | 22.321819 | 114.2143368 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:30:31 | 4.3 | 9.6 | 22.321827 | 114.2143353 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:32:06 | 4.6 | 11.1 | 22.32209833 | 114.2143067 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:32:07 | 5.1 | 16.3 | 22.32211117 | 114.2143063 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:32:08 | 4.5 | 20.9 | 22.32213883 | 114.2143042 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:33:20 | 4.1 | 7.8 | 22.325646 | 114.2140032 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:33:21 | 4.8 | 12.7 | 22.3256595 | 114.2140025 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:33:22 | 5.3 | 18 | 22.3256845 | 114.2140035 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:34:11 | 4.3 | 8.5 | 22.32882983 | 114.2118762 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:34:18 | 4.3 | 12.3 | 22.3288815 | 114.211811 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:34:19 | 5 | 17.3 | 22.32889133 | 114.2117992 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:36:48 | 4.9 | 11.1 | 22.33417417 | 114.207957 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:36:49 | 5.2 | 16.3 | 22.33418883 | 114.2079593 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:37:33 | 4 | 5.8 | 22.33662983 | 114.2068205 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:37:41 | 4.2 | 18.4 | 22.3367115 | 114.2067175 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:38:56 | 4.6 | 11.1 | 22.33919583 | 114.2024977 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:38:57 | 4.8 | 15.9 | 22.33920033 | 114.2024872 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:41:09 | 4.8 | 13.9 | 22.3416255 | 114.1942635 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:41:10 | 4.3 | 18.2 | 22.34162767 | 114.1942318 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:52:34 | 4.4 | 11 | 22.36885817 | 114.1790717 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:53:51 | 4.8 | 13.8 | 22.36847767 | 114.1780865 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:53:52 | 4.7 | 18.6 | 22.36847033 | 114.1780667 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:55:49 | 5 | 10.2 | 22.36755183 | 114.1765032 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:55:50 | 5.2 | 15.4 | 22.36754117 | 114.176482 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:55:51 | 4.5 | 20 | 22.36752417 | 114.1764532 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:56:21 | 4.7 | 25.3 | 22.36623883 | 114.1764055 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:57:06 | 4.5 | 10.3 | 22.36549867 | 114.175377 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:57:07 | 4.8 | 15.1 | 22.36548617 | 114.1753618 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:58:37 | 4 | 8 | 22.36293383 | 114.1724713 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:58:38 | 4.7 | 12.7 | 22.36292617 | 114.1724567 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:58:39 | 5.5 | 18.2 | 22.36292617 | 114.1724567 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:58:40 | 4.4 | 22.7 | 22.36292017 | 114.1724292 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:59:21 | 4.5 | 6.7 | 22.36335617 | 114.171425 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:59:22 | 5.1 | 11.9 | 22.36336183 | 114.1714168 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 21:59:23 | 5.4 | 17.3 | 22.36337567 | 114.171398 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:00:21 | 4.2 | 6.2 | 22.3655545 | 114.1730053 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:00:22 | 4.9 | 11.2 | 22.365562 | 114.173011 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:00:23 | 5.6 | 16.9 | 22.365577 | 114.1730273 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:00:24 | 4.7 | 21.6 | 22.36559767 | 114.1730568 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:01:06 | 5 | 11.6 | 22.36747583 | 114.17429 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:01:07 | 5.2 | 16.8 | 22.36748917 | 114.1743043 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:01:08 | 4.4 | 21.3 | 22.36751983 | 114.1743207 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:02:09 | 4.3 | 18.3 | 22.371433 | 114.1783865 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:02:54 | 4.9 | 12.8 | 22.37324617 | 114.1771463 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:02:55 | 5 | 17.8 | 22.373261 | 114.1771378 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:03:55 | 5.2 | 8.6 | 22.37391267 | 114.1767605 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:03:56 | 5.3 | 14 | 22.3739175 | 114.1767542 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:03:57 | 5.1 | 19.1 | 22.3739285 | 114.176744 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:05:08 | 5.5 | 5.5 | 22.374927 | 114.177746 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:05:09 | 5.9 | 11.5 | 22.374927 | 114.177746 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:05:10 | 4 | 15.5 | 22.37493533 | 114.17776 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:05:51 | 4.6 | 13.4 | 22.37543833 | 114.1776137 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:05:52 | 4.8 | 18.2 | 22.375456 | 114.1776077 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:06:55 | 4.5 | 8.9 | 22.3757235 | 114.1759573 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:06:56 | 5.6 | 14.5 | 22.3757225 | 114.1759537 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:06:57 | 4.7 | 19.2 | 22.37571383 | 114.1759405 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:08:01 | 4.6 | 6.9 | 22.377286 | 114.1739652 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:08:48 | 5.3 | 13 | 22.37726567 | 114.1730403 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:08:49 | 5.7 | 18.7 | 22.37726367 | 114.1730258 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:10:11 | 4.7 | 6 | 22.37598683 | 114.1707957 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:10:39 | 4.7 | 18.7 | 22.37654483 | 114.1710293 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:10:40 | 4.4 | 23.1 | 22.37657083 | 114.1710512 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:11:33 | 6.5 | 16.9 | 22.37751683 | 114.1737398 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | KT.FRY | 2018-07-28 21:17:27 | 2018-07-28 21:20:00 | 2018-07-28 22:11:34 | 5.2 | 22.2 | 22.37752133 | 114.1737608 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:26:03 | 4.8 | 12.2 | 22.377744 | 114.1747278 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:27:27 | 4.4 | 8.5 | 22.37673767 | 114.1750005 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:27:33 | 4.2 | 17.1 | 22.37658917 | 114.174995 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:27:34 | 4.7 | 21.9 | 22.37657167 | 114.1749572 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:29:15 | 4.1 | 7 | 22.3760795 | 114.1707562 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:29:16 | 5.2 | 12.3 | 22.37608333 | 114.1707675 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:29:36 | 4.3 | 8.8 | 22.37647417 | 114.1709492 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:29:38 | 4.5 | 17.4 | 22.37649817 | 114.1709492 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:29:39 | 4.4 | 21.8 | 22.37656117 | 114.1709793 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:31:03 | 6.2 | 16.6 | 22.3775055 | 114.173752 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:31:04 | 5.1 | 21.8 | 22.3775055 | 114.173752 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:31:48 | 5.2 | 6.9 | 22.37590633 | 114.1755632 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:31:49 | 6 | 12.9 | 22.37590633 | 114.1755632 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:31:50 | 5.8 | 18.7 | 22.3758985 | 114.1755688 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:32:56 | 4.6 | 6.8 | 22.37382233 | 114.1770115 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:32:57 | 4.6 | 11.4 | 22.3738145 | 114.1770172 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:32:58 | 5.1 | 16.6 | 22.37379633 | 114.1770318 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:32:59 | 4.2 | 20.8 | 22.37376567 | 114.1770482 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:33:36 | 6.2 | 8.7 | 22.37176633 | 114.1785793 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:33:37 | 4.9 | 13.6 | 22.371765 | 114.178583 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:33:40 | 4.4 | 23 | 22.3717255 | 114.1786552 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:35:08 | 4.4 | 7.9 | 22.36862433 | 114.1751607 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:35:09 | 5.2 | 13.2 | 22.36862033 | 114.1751607 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:35:10 | 6 | 19.2 | 22.368608 | 114.1751525 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:36:26 | 5.3 | 5.3 | 22.36791533 | 114.1745825 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:36:27 | 5.9 | 11.3 | 22.36791533 | 114.1745825 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:36:28 | 5.5 | 16.9 | 22.367909 | 114.1745788 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:36:29 | 4.8 | 21.7 | 22.36789167 | 114.1745683 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:37:09 | 4.3 | 7.8 | 22.36530717 | 114.1729957 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:37:10 | 5.1 | 12.9 | 22.36530517 | 114.1729922 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:37:11 | 5.6 | 18.6 | 22.36529633 | 114.172981 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:38:18 | 4.6 | 9.2 | 22.36369267 | 114.17151 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:38:19 | 4.1 | 13.3 | 22.36369033 | 114.1715068 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:38:30 | 4.2 | 17.9 | 22.36340133 | 114.1713475 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:38:31 | 4.3 | 22.3 | 22.3633745 | 114.1713638 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:38:59 | 4.6 | 13.6 | 22.363331 | 114.173042 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:39:00 | 5 | 18.7 | 22.36333833 | 114.1730598 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:40:25 | 5.2 | 11 | 22.36385517 | 114.1738105 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:40:26 | 5.4 | 16.4 | 22.36386583 | 114.1738287 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:40:27 | 4.4 | 20.9 | 22.363882 | 114.1738607 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:41:41 | 4.6 | 6.2 | 22.36538583 | 114.1752262 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:41:42 | 4.9 | 11.2 | 22.36539417 | 114.1752315 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:41:43 | 5.5 | 16.7 | 22.36539417 | 114.1752315 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:41:44 | 4.6 | 21.4 | 22.365435 | 114.1752742 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:42:58 | 4.2 | 13.9 | 22.366868 | 114.176352 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:42:59 | 4.4 | 18.4 | 22.36689533 | 114.1763408 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:44:43 | 4.1 | 8.9 | 22.36905083 | 114.1791778 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:44:44 | 5 | 13.9 | 22.36905717 | 114.1791952 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:44:45 | 5.1 | 19.1 | 22.36905717 | 114.1791952 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:45:34 | 4.1 | 5.7 | 22.36938083 | 114.1801337 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:45:35 | 4.6 | 10.4 | 22.36938267 | 114.1801388 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:45:36 | 5 | 15.4 | 22.36939183 | 114.1801557 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:46:40 | 4.5 | 5.8 | 22.36609117 | 114.1807768 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:46:41 | 5 | 10.9 | 22.36608833 | 114.1807767 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:52:04 | 6.7 | 6.7 | 22.34267033 | 114.1863672 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:52:05 | 5.8 | 12.5 | 22.34267033 | 114.1863672 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:52:06 | 6.4 | 18.9 | 22.342668 | 114.1863762 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:52:07 | 5.3 | 24.3 | 22.342661 | 114.1864007 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:52:08 | 4.7 | 29 | 22.34264983 | 114.1864415 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:52:58 | 4.6 | 7 | 22.34181067 | 114.191571 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:53:49 | 4.7 | 12.5 | 22.341807 | 114.1917602 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:53:50 | 5.3 | 17.9 | 22.34180633 | 114.1917745 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:53:51 | 4.2 | 22.1 | 22.341805 | 114.1918008 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:55:16 | 4.5 | 6.6 | 22.3418005 | 114.195505 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:55:17 | 4.6 | 11.3 | 22.341801 | 114.1955075 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:55:18 | 4.2 | 15.5 | 22.34180067 | 114.1955188 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:56:45 | 5.1 | 12.4 | 22.3394045 | 114.2026467 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:56:46 | 4.7 | 17.2 | 22.33939933 | 114.2026592 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 22:58:20 | 4.2 | 23 | 22.33651617 | 114.2071998 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:01:16 | 4.4 | 9.7 | 22.3253205 | 114.2143135 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:01:17 | 5.3 | 15 | 22.32531417 | 114.2143103 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:01:18 | 5.5 | 20.5 | 22.32529667 | 114.2143062 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:02:11 | 4.7 | 7 | 22.321153 | 114.2146322 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:02:12 | 5 | 12.1 | 22.32114283 | 114.2146325 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:02:13 | 5.6 | 17.8 | 22.32112067 | 114.2146325 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:02:14 | 4.4 | 22.2 | 22.321085 | 114.2146295 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:03:10 | 5.2 | 5.2 | 22.31747017 | 114.2152803 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:03:11 | 5 | 10.3 | 22.31747017 | 114.2152803 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:03:12 | 5.8 | 16.2 | 22.31746433 | 114.2152823 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:03:13 | 5.3 | 21.6 | 22.31744733 | 114.2152913 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:04:06 | 5.3 | 11.9 | 22.31566517 | 114.2182963 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:04:07 | 5.5 | 17.5 | 22.31565867 | 114.2183192 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:05:39 | 5.3 | 12.9 | 22.313843 | 114.2229357 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:05:40 | 5 | 18 | 22.313844 | 114.2229493 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:07:11 | 5.5 | 5.5 | 22.31303183 | 114.2247742 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:07:12 | 4.8 | 10.4 | 22.313018 | 114.2247755 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:07:13 | 4.2 | 14.6 | 22.31300017 | 114.2247898 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:07:37 | 4.5 | 7.1 | 22.312482 | 114.2259527 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:08:53 | 4.5 | 6.8 | 22.30989333 | 114.2238895 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:08:54 | 5.5 | 12.4 | 22.309886 | 114.2238813 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:09:14 | 4.5 | 24.5 | 22.30950417 | 114.2233587 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:10:22 | 6 | 6 | 22.30703083 | 114.2218763 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:10:23 | 5.3 | 11.3 | 22.30703083 | 114.2218763 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:10:24 | 6 | 17.3 | 22.30703983 | 114.2218672 |
| 69496 | | STD | 2018-07-28 | 80 | UY6011 | 80 | MEILAM | 2018-07-28 22:23:30 | 2018-07-28 22:25:00 | 2018-07-28 23:10:25 | 4.8 | 22.2 | 22.30705833 | 114.2218475 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 14:59:12 | 5.2 | 9.4 | 22.376844 | 114.1750487 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 14:59:13 | 5.5 | 14.9 | 22.37684117 | 114.1750483 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 14:59:20 | 4.4 | 20.7 | 22.3766285 | 114.175023 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:01:34 | 4.4 | 21.9 | 22.37664933 | 114.1710852 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:02:48 | 6.1 | 10.3 | 22.37749033 | 114.1736397 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:02:49 | 4.3 | 14.7 | 22.37749117 | 114.173646 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:02:50 | 4.3 | 19.1 | 22.37749467 | 114.1736697 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:03:32 | 5.6 | 13 | 22.37579017 | 114.1756478 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:03:33 | 5.7 | 18.7 | 22.37577717 | 114.1756592 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:04:15 | 5.7 | 5.7 | 22.37391233 | 114.1769222 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:04:16 | 5.4 | 11.1 | 22.37391067 | 114.1769233 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:04:45 | 5.8 | 5.8 | 22.37381817 | 114.1770258 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:04:51 | 4.5 | 21.3 | 22.37371267 | 114.1770745 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:04:52 | 4.2 | 25.5 | 22.37367583 | 114.1770937 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:05:07 | 4.7 | 25.4 | 22.37302167 | 114.1775432 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:06:05 | 4.6 | 4.6 | 22.37070733 | 114.1779197 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:06:14 | 4.5 | 16.3 | 22.3706655 | 114.1778232 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:06:15 | 4.9 | 21.2 | 22.37065317 | 114.1777958 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:06:52 | 4.1 | 13.8 | 22.369151 | 114.1756245 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:06:53 | 5.3 | 19.2 | 22.36913433 | 114.1756087 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:06:54 | 4.6 | 23.8 | 22.36911 | 114.1755855 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:07:15 | 4.2 | 8.1 | 22.36861667 | 114.1751785 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:07:16 | 4.9 | 13.1 | 22.3686115 | 114.175174 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:07:17 | 6.3 | 19.5 | 22.36859817 | 114.1751615 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:08:04 | 5.3 | 10.6 | 22.36792067 | 114.1746687 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:08:05 | 6.1 | 16.7 | 22.36791183 | 114.1746602 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:08:55 | 4.2 | 7.1 | 22.365305 | 114.1730183 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:08:56 | 5 | 12.1 | 22.3653015 | 114.1730153 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:08:57 | 5.9 | 18.1 | 22.36529133 | 114.1730025 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:08:58 | 4.4 | 22.5 | 22.36527483 | 114.1729785 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:09:30 | 5.4 | 13.3 | 22.3641525 | 114.1719705 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:09:31 | 5.6 | 19 | 22.36414033 | 114.1719568 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:10:34 | 4.8 | 20.8 | 22.36342617 | 114.1713642 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:12:05 | 4.7 | 6.8 | 22.36387583 | 114.1738342 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:12:07 | 5.6 | 17.8 | 22.36388883 | 114.173852 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:12:08 | 4.7 | 22.6 | 22.36390533 | 114.1738778 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:13:04 | 4.6 | 6.3 | 22.36544167 | 114.1752428 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:13:05 | 5.4 | 11.8 | 22.365444 | 114.1752455 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:13:07 | 4.8 | 22.5 | 22.36547167 | 114.175284 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:13:29 | 4 | 14.9 | 22.36625367 | 114.176209 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:14:42 | 5.1 | 7.8 | 22.36712167 | 114.1762368 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:14:43 | 5.8 | 13.7 | 22.36712583 | 114.1762347 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:14:44 | 6.3 | 20.1 | 22.36714167 | 114.1762267 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:15:44 | 5.3 | 8.4 | 22.36867717 | 114.1784035 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:15:45 | 6.1 | 14.5 | 22.36867867 | 114.1784053 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:15:46 | 5.7 | 20.3 | 22.3686865 | 114.1784233 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:16:48 | 4.8 | 12.7 | 22.369036 | 114.1791947 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:16:49 | 5.6 | 18.4 | 22.36903917 | 114.1792163 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:17:15 | 5.5 | 5.5 | 22.3693695 | 114.180136 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:17:16 | 5 | 10.6 | 22.36937033 | 114.1801377 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:17:17 | 5.9 | 16.5 | 22.36937533 | 114.1801493 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:17:18 | 4.2 | 20.7 | 22.36938533 | 114.1801727 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:24:12 | 6.7 | 6.7 | 22.3421905 | 114.1900882 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:24:13 | 6 | 12.7 | 22.34219133 | 114.1900882 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:24:14 | 6.3 | 19.1 | 22.34218233 | 114.1900995 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:24:15 | 5.2 | 24.4 | 22.34216733 | 114.1901202 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:24:55 | 4.4 | 7.5 | 22.34181417 | 114.1918837 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:24:56 | 5 | 12.5 | 22.3418145 | 114.1918898 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:24:57 | 5.5 | 18 | 22.3418155 | 114.1919078 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:24:58 | 4.4 | 22.5 | 22.34181483 | 114.1919387 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:25:55 | 5 | 14.3 | 22.34181583 | 114.1957668 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:25:56 | 5.1 | 19.4 | 22.34181017 | 114.1957892 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:27:54 | 5.4 | 14.1 | 22.33950917 | 114.2028083 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:27:55 | 5 | 19.1 | 22.33948917 | 114.2028195 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:28:16 | 5.1 | 5.1 | 22.33862433 | 114.2038433 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:28:17 | 4.8 | 9.9 | 22.338623 | 114.2038452 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:28:18 | 6.1 | 16.1 | 22.33861567 | 114.203852 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:28:19 | 5.2 | 21.3 | 22.338596 | 114.2038652 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:29:50 | 8.4 | 8.4 | 22.33641883 | 114.2073225 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:29:51 | 7.1 | 15.5 | 22.33641433 | 114.2073265 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:29:52 | 5.5 | 21.1 | 22.33639967 | 114.207334 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:32:10 | 4.8 | 9.8 | 22.32531383 | 114.2143132 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:32:11 | 5.6 | 15.4 | 22.3253 | 114.2143058 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:32:12 | 5.5 | 20.9 | 22.32527667 | 114.214296 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:33:10 | 5 | 10.8 | 22.32113067 | 114.2146792 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:33:11 | 6 | 16.9 | 22.32111883 | 114.2146807 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:33:12 | 4.9 | 21.8 | 22.32109467 | 114.2146837 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:34:18 | 5.6 | 11.7 | 22.31743233 | 114.2152923 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:34:19 | 6.2 | 17.9 | 22.31742167 | 114.2152983 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:34:20 | 4.5 | 22.5 | 22.31739883 | 114.2153117 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:35:34 | 5.4 | 7.8 | 22.315569 | 114.2183705 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:35:35 | 6.1 | 13.9 | 22.31556717 | 114.2183743 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:36:27 | 4.8 | 19.5 | 22.31450517 | 114.2212285 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:36:28 | 4.1 | 23.7 | 22.31449217 | 114.2212625 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:37:23 | 5.2 | 9.9 | 22.313804 | 114.2231318 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:37:24 | 5.8 | 15.7 | 22.31380433 | 114.2231433 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:37:25 | 5.2 | 20.9 | 22.31379667 | 114.2231647 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:38:56 | 5.9 | 9 | 22.31308883 | 114.2249952 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:38:57 | 6.2 | 15.2 | 22.31308483 | 114.225 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:38:58 | 5.8 | 21.1 | 22.31307417 | 114.2250185 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:39:22 | 6.1 | 9.5 | 22.3126025 | 114.2261687 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:39:23 | 6.8 | 16.3 | 22.31260167 | 114.2261762 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:39:24 | 5 | 21.3 | 22.31259917 | 114.2262 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 14:55:50 | 2018-07-29 14:58:00 | 2018-07-29 15:41:10 | 4.4 | 25.3 | 22.309853 | 114.2237553 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-29 16:03:35 | NULL | 2018-07-29 16:05:54 | 4.5 | 4.5 | 22.3079075 | 114.2219032 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-29 16:03:35 | NULL | 2018-07-29 16:05:55 | 4.3 | 8.9 | 22.3079075 | 114.2219032 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:06:01 | 4.4 | 21.3 | 22.3080305 | 114.2219458 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:08:25 | 4.3 | 5.7 | 22.30693517 | 114.2240473 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:08:26 | 4.3 | 10.1 | 22.306933 | 114.2240505 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:08:27 | 4.8 | 15 | 22.30693217 | 114.2240645 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:08:28 | 4.4 | 19.4 | 22.3069285 | 114.2240913 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:08:29 | 4.5 | 24 | 22.30692717 | 114.2241297 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:09:21 | 4.9 | 17.4 | 22.308172 | 114.2257803 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:09:22 | 4.4 | 21.8 | 22.30818783 | 114.2258088 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:10:41 | 7 | 7 | 22.30912433 | 114.2272583 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:10:42 | 5.5 | 12.5 | 22.30912383 | 114.2272615 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:10:43 | 6.1 | 18.6 | 22.30912933 | 114.2272748 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:11:01 | 4.4 | 15 | 22.3087595 | 114.2278295 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:11:33 | 5 | 7.7 | 22.30898783 | 114.2284163 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:11:34 | 5.3 | 13 | 22.308992 | 114.2284202 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:12:24 | 4.6 | 7.1 | 22.309884 | 114.2289733 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:12:25 | 4.6 | 11.8 | 22.30988433 | 114.2289743 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:12:37 | 4.3 | 22 | 22.3102875 | 114.2290905 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:13:37 | 4.8 | 11.6 | 22.3117195 | 114.2266287 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:13:38 | 5.7 | 17.3 | 22.311725 | 114.2266147 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:13:39 | 4.4 | 21.8 | 22.3117345 | 114.2265892 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:14:07 | 4.7 | 19.4 | 22.31252617 | 114.2253363 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:14:08 | 4.4 | 23.9 | 22.3125425 | 114.2253027 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:15:37 | 4.3 | 23 | 22.313206 | 114.223858 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:16:45 | 4.7 | 10.9 | 22.3142815 | 114.2213033 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:16:46 | 5.2 | 16.1 | 22.3143045 | 114.2212993 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:16:47 | 5.3 | 21.5 | 22.314335 | 114.2212863 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:18:32 | 4.5 | 10 | 22.31655883 | 114.2158338 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:18:33 | 5.6 | 15.6 | 22.31656667 | 114.2158252 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:18:34 | 5.1 | 20.7 | 22.316582 | 114.2158073 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:19:21 | 4.4 | 8.6 | 22.31968867 | 114.214604 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:19:22 | 5 | 13.6 | 22.3196955 | 114.2146028 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:19:23 | 5.7 | 19.3 | 22.31971317 | 114.2145998 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:20:11 | 4.4 | 7.6 | 22.32185867 | 114.2143588 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:20:12 | 5.5 | 13.2 | 22.32186483 | 114.214358 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:20:13 | 5.1 | 18.3 | 22.321882 | 114.2143547 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:20:31 | 4.6 | 4.6 | 22.3221225 | 114.214327 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:20:32 | 4.2 | 8.9 | 22.32212283 | 114.214327 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:20:33 | 5.3 | 14.2 | 22.32213183 | 114.2143265 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:20:34 | 5.2 | 19.5 | 22.32215183 | 114.2143268 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:21:34 | 4.6 | 10.4 | 22.32549283 | 114.2139893 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:21:57 | 5 | 11.7 | 22.3255945 | 114.2139752 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:21:58 | 5.7 | 17.4 | 22.32560833 | 114.2139757 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:21:59 | 4.7 | 22.2 | 22.3256335 | 114.2139768 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:24:08 | 5.1 | 10.8 | 22.33357433 | 114.2075332 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:24:09 | 5 | 15.9 | 22.33358167 | 114.2075415 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:25:37 | 5.3 | 15.1 | 22.336597 | 114.206781 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:27:10 | 4.1 | 8.6 | 22.33909633 | 114.2026375 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:27:54 | 4.6 | 10.3 | 22.33917833 | 114.2024777 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:27:55 | 5.2 | 15.5 | 22.33918617 | 114.202468 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:27:56 | 4.7 | 20.2 | 22.33919917 | 114.2024532 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:30:18 | 4.7 | 12.5 | 22.34160883 | 114.1942758 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:30:19 | 4.9 | 17.4 | 22.34160817 | 114.1942593 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:37:52 | 5.7 | 5.7 | 22.36568917 | 114.1806813 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:37:53 | 5.1 | 10.9 | 22.36569833 | 114.180679 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:37:54 | 5.5 | 16.5 | 22.36571417 | 114.1806745 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:37:55 | 5.2 | 21.8 | 22.36574283 | 114.1806702 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:37:56 | 4 | 25.8 | 22.36578383 | 114.1806648 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:38:41 | 4.1 | 9.5 | 22.369132 | 114.1803563 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:38:42 | 4.1 | 13.6 | 22.36914317 | 114.18035 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:39:47 | 4.3 | 13.2 | 22.36883167 | 114.1790128 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:39:48 | 4.7 | 18 | 22.36882583 | 114.1789935 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:40:42 | 4.4 | 9.7 | 22.36845967 | 114.178108 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:40:43 | 5 | 14.7 | 22.36845617 | 114.1780985 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:40:44 | 4.8 | 19.5 | 22.36844933 | 114.1780808 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:41:32 | 4.9 | 12.6 | 22.367535 | 114.1765587 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:41:33 | 5.1 | 17.8 | 22.367525 | 114.1765447 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:42:45 | 4.6 | 11.7 | 22.36543083 | 114.175392 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:42:46 | 5 | 16.7 | 22.36542267 | 114.1753787 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:44:03 | 4.4 | 5.5 | 22.36286533 | 114.1724865 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:44:04 | 4.4 | 9.9 | 22.36286817 | 114.1724912 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:44:05 | 6.1 | 16.1 | 22.36286717 | 114.1724798 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:44:25 | 4.6 | 7.7 | 22.36327033 | 114.1715048 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:44:26 | 5.4 | 13.2 | 22.36327367 | 114.1715015 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:44:27 | 5.7 | 19 | 22.36328517 | 114.1714887 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:44:38 | 4.1 | 24.2 | 22.363659 | 114.1713483 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:45:23 | 5.1 | 10.5 | 22.365574 | 114.173035 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:45:24 | 5.9 | 16.4 | 22.36558267 | 114.1730435 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:45:25 | 5.1 | 21.6 | 22.36559717 | 114.1730642 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:47:13 | 4.3 | 4.3 | 22.36751217 | 114.1743097 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:47:14 | 4.8 | 9.1 | 22.36751233 | 114.1743097 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:47:15 | 5.3 | 14.5 | 22.36751283 | 114.1743108 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:47:16 | 5.6 | 20.1 | 22.367529 | 114.1743182 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:48:14 | 4.2 | 9.9 | 22.36890467 | 114.175158 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:48:15 | 4.7 | 14.6 | 22.368913 | 114.1751675 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:48:16 | 4.9 | 19.6 | 22.36892833 | 114.175184 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:49:00 | 4.7 | 16.8 | 22.371435 | 114.1783707 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:49:01 | 4.8 | 21.6 | 22.371459 | 114.1783873 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:50:47 | 4.6 | 9.2 | 22.37396583 | 114.1767557 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:50:48 | 5.9 | 15.2 | 22.37397367 | 114.1767513 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:50:55 | 4.3 | 26.5 | 22.3742785 | 114.1767942 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:51:40 | 4.9 | 6.9 | 22.374845 | 114.1778592 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:51:41 | 5.4 | 12.4 | 22.37485067 | 114.1778567 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:51:56 | 4.2 | 15.3 | 22.3751165 | 114.1779888 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:51:57 | 4.5 | 19.9 | 22.37514017 | 114.177975 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:52:37 | 5.1 | 14.5 | 22.37541333 | 114.1777548 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:53:35 | 4.6 | 6.8 | 22.376036 | 114.1772133 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:53:37 | 4.7 | 17.5 | 22.37605733 | 114.177198 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:53:48 | 4.2 | 19.8 | 22.37640433 | 114.1768472 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:54:10 | 4.6 | 7.3 | 22.375703 | 114.1760243 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:54:11 | 5.4 | 12.8 | 22.37570133 | 114.17602 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:54:12 | 5.8 | 18.6 | 22.375693 | 114.1760055 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:55:24 | 5.6 | 11 | 22.37729617 | 114.1740215 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:56:01 | 4.5 | 4.5 | 22.37727067 | 114.1730873 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:56:02 | 5.6 | 10.2 | 22.3772705 | 114.1730873 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:56:03 | 6.5 | 16.7 | 22.37726917 | 114.1730762 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:56:04 | 4.9 | 21.6 | 22.37726417 | 114.173053 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:57:56 | 4.8 | 19 | 22.37651983 | 114.1710303 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:57:57 | 4.4 | 23.4 | 22.37653133 | 114.1710887 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:59:13 | 5.5 | 7.1 | 22.37740367 | 114.17379 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:59:14 | 6.5 | 13.7 | 22.37740633 | 114.1737957 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 16:03:35 | 2018-07-29 16:06:00 | 2018-07-29 16:59:15 | 6.4 | 20.1 | 22.377411 | 114.1738113 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:03:35 | 4.5 | 8.7 | 22.37772483 | 114.1747678 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:05:07 | 4.7 | 7.8 | 22.37674183 | 114.175145 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:05:14 | 4.9 | 22.7 | 22.37658767 | 114.1751228 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:07:15 | 4.7 | 22.3 | 22.37647967 | 114.171068 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:08:50 | 6.8 | 13 | 22.377519 | 114.1742153 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:08:51 | 6.3 | 19.4 | 22.37752383 | 114.1742268 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:09:49 | 5.1 | 9 | 22.37575133 | 114.1756045 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:09:50 | 6.1 | 15.2 | 22.37574667 | 114.1756077 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:09:51 | 5.6 | 20.8 | 22.37573083 | 114.1756183 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:11:26 | 4.7 | 7.3 | 22.37386133 | 114.1769542 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:11:32 | 4.6 | 25 | 22.37374083 | 114.1770368 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:12:59 | 4.8 | 20.2 | 22.369121 | 114.1754872 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:13:00 | 4.4 | 24.6 | 22.3690955 | 114.1754613 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:13:33 | 4.5 | 6.8 | 22.36866983 | 114.1751087 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:13:34 | 5.7 | 12.6 | 22.368667 | 114.1751065 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:13:35 | 5.7 | 18.3 | 22.368656 | 114.1750972 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:14:44 | 5 | 7.7 | 22.36531833 | 114.1730087 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:14:45 | 5.9 | 13.6 | 22.36531567 | 114.1730065 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:14:46 | 6.7 | 20.4 | 22.36530633 | 114.1729935 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:15:21 | 4.7 | 10.4 | 22.36415667 | 114.171978 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:15:22 | 4.6 | 15 | 22.364148 | 114.1719702 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:16:10 | 4.2 | 7.5 | 22.36368217 | 114.1714963 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:16:11 | 5.2 | 12.7 | 22.36367817 | 114.1714918 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:16:21 | 4.5 | 18.9 | 22.36340033 | 114.1713743 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:16:22 | 4.7 | 23.6 | 22.36337433 | 114.1713925 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:17:24 | 5.7 | 12.6 | 22.36385117 | 114.173829 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:17:25 | 6.2 | 18.8 | 22.363858 | 114.1738477 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:17:26 | 4.8 | 23.6 | 22.36387283 | 114.1738762 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:18:07 | 5.4 | 14.3 | 22.3654085 | 114.1752617 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:18:08 | 6.4 | 20.7 | 22.36541917 | 114.1752852 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:18:09 | 4.2 | 25 | 22.36543983 | 114.1753137 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:19:14 | 5.7 | 5.7 | 22.36624417 | 114.1762083 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:19:15 | 5.3 | 11.1 | 22.36624217 | 114.1762103 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:19:16 | 5.7 | 16.8 | 22.36624417 | 114.1762205 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:20:39 | 5.1 | 7.3 | 22.3669985 | 114.1763402 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:20:40 | 5.9 | 13.3 | 22.367003 | 114.1763373 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:20:41 | 6.1 | 19.5 | 22.36701767 | 114.1763285 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:22:20 | 4.2 | 7 | 22.36901 | 114.1791297 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:22:21 | 4.7 | 11.8 | 22.36901567 | 114.1791438 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:22:22 | 5.2 | 17 | 22.3690195 | 114.179164 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:22:42 | 4.1 | 13.6 | 22.36933133 | 114.1800497 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:22:43 | 4.6 | 18.2 | 22.36933983 | 114.1800723 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:24:16 | 4.8 | 10.9 | 22.364751 | 114.1812665 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:24:17 | 4.4 | 15.3 | 22.36473983 | 114.1812703 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:29:28 | 5.3 | 17.1 | 22.3426405 | 114.1864563 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:29:29 | 5 | 22.1 | 22.34263167 | 114.1864862 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:29:30 | 4.3 | 26.5 | 22.34262317 | 114.1865295 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:29:32 | 4.2 | 34.8 | 22.34259983 | 114.1866547 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:31:07 | 5.6 | 18.3 | 22.3418505 | 114.1919208 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:31:08 | 4.3 | 22.6 | 22.3418445 | 114.1919517 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:32:15 | 4.7 | 6.4 | 22.34183967 | 114.1957557 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:32:16 | 4.1 | 10.6 | 22.34184 | 114.195755 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:32:17 | 5 | 15.6 | 22.34183717 | 114.1957653 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:32:18 | 4.7 | 20.4 | 22.34183167 | 114.1957888 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:33:45 | 4.6 | 10.3 | 22.33954133 | 114.2028317 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:33:46 | 5.4 | 15.8 | 22.33953233 | 114.2028392 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:33:47 | 4.5 | 20.4 | 22.33951517 | 114.2028542 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:35:54 | 4.6 | 4.6 | 22.33680933 | 114.2070438 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:36:22 | 4.9 | 20.2 | 22.33640483 | 114.2073733 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:37:07 | 5.4 | 5.4 | 22.33496767 | 114.2080557 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:40:13 | 4.6 | 4.6 | 22.32552933 | 114.2143285 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:40:14 | 5.3 | 10 | 22.32552917 | 114.2143285 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:40:15 | 5.7 | 15.8 | 22.3255195 | 114.2143305 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:40:16 | 5.5 | 21.4 | 22.32549733 | 114.2143258 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:41:52 | 4.6 | 11.1 | 22.31755633 | 114.21527 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:41:53 | 5.7 | 16.9 | 22.317543 | 114.2152747 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:41:54 | 4.6 | 21.5 | 22.31751917 | 114.2152802 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:43:24 | 4.8 | 9.2 | 22.31569683 | 114.2180902 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:43:25 | 5.7 | 14.9 | 22.31569433 | 114.2180967 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:44:15 | 6.8 | 6.8 | 22.3145275 | 114.2211878 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:44:16 | 5.3 | 12.1 | 22.31452717 | 114.2211892 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:44:17 | 5.1 | 17.3 | 22.31452267 | 114.2212015 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:44:18 | 4.8 | 22.1 | 22.31451217 | 114.2212268 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:45:29 | 4.3 | 6.7 | 22.31398317 | 114.2226983 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:45:30 | 5.2 | 12 | 22.31398217 | 114.2227012 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:45:31 | 4.4 | 16.4 | 22.31397717 | 114.2227142 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:45:57 | 4.2 | 24.3 | 22.313468 | 114.224129 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:47:16 | 4.7 | 7 | 22.3131735 | 114.2249197 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:47:17 | 6.1 | 13.1 | 22.313173 | 114.2249237 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:47:18 | 4.2 | 17.3 | 22.31316683 | 114.2249382 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:47:58 | 5.1 | 17.7 | 22.31270817 | 114.2262543 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:47:59 | 4.4 | 22.2 | 22.312706 | 114.2262838 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:49:03 | 5.4 | 5.4 | 22.31149117 | 114.225781 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:49:04 | 5.8 | 11.3 | 22.31149 | 114.2257792 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:49:05 | 6.3 | 17.7 | 22.3114835 | 114.2257698 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:49:37 | 5.7 | 12.1 | 22.311041 | 114.2251315 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:49:38 | 6 | 18.2 | 22.31103 | 114.2251233 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:49:39 | 5 | 23.2 | 22.31101217 | 114.2251015 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:50:28 | 5.3 | 11.2 | 22.310023 | 114.2238622 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:50:29 | 5.4 | 16.6 | 22.31001417 | 114.2238532 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:50:30 | 5.3 | 22 | 22.3099935 | 114.2238358 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:51:29 | 4.7 | 24.6 | 22.30719467 | 114.2225933 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:51:55 | 6.4 | 6.4 | 22.307115 | 114.2218917 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:51:56 | 5.9 | 12.4 | 22.30711983 | 114.2218882 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:51:57 | 6.2 | 18.7 | 22.307136 | 114.2218812 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 17:02:11 | 2018-07-29 17:03:00 | 2018-07-29 17:51:58 | 4.7 | 23.4 | 22.30715783 | 114.2218648 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-29 18:02:54 | NULL | 2018-07-29 18:04:55 | 4.6 | 8.7 | 22.307942 | 114.2218052 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:05:12 | 4.2 | 15.7 | 22.3081235 | 114.2218947 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:05:26 | 4.2 | 22.1 | 22.308597 | 114.2220368 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:06:07 | 5.1 | 21.8 | 22.30771767 | 114.2233403 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:07:56 | 4.1 | 23.9 | 22.30850233 | 114.2280055 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:11:27 | 4.8 | 14.5 | 22.313152 | 114.2239895 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:11:37 | 4.1 | 25.9 | 22.31330233 | 114.2235945 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:12:35 | 5.8 | 5.8 | 22.31416117 | 114.2213168 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:12:37 | 4.6 | 15.2 | 22.314167 | 114.2213017 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:13:58 | 4.7 | 8.4 | 22.3151405 | 114.2187378 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:13:59 | 4.6 | 13 | 22.31514383 | 114.218732 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:14:55 | 4.8 | 6.7 | 22.31654883 | 114.2157553 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:14:56 | 5.2 | 12 | 22.31655383 | 114.2157503 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:14:57 | 5.7 | 17.8 | 22.31656383 | 114.2157392 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:14:58 | 4.8 | 22.6 | 22.31658533 | 114.2157217 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:15:41 | 4.1 | 16.9 | 22.32023983 | 114.2144852 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:15:42 | 4.9 | 21.8 | 22.32026967 | 114.2144908 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:16:54 | 4.5 | 7.7 | 22.32187867 | 114.214313 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:17:41 | 4.3 | 9.6 | 22.3221435 | 114.2142862 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:17:42 | 5.1 | 14.7 | 22.322154 | 114.2142857 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:17:43 | 5.4 | 20.1 | 22.32217583 | 114.2142858 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:18:40 | 4.5 | 7.5 | 22.325597 | 114.2139768 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:18:41 | 5.4 | 12.9 | 22.32560267 | 114.2139757 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:18:42 | 5.6 | 18.5 | 22.325619 | 114.2139733 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:18:43 | 4.1 | 22.7 | 22.325648 | 114.2139712 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:19:33 | 4.3 | 7.8 | 22.3288065 | 114.2118088 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:19:34 | 5.2 | 13.1 | 22.3288105 | 114.2118045 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:19:35 | 5.4 | 18.5 | 22.32882417 | 114.2117942 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:24:12 | 5.1 | 5.1 | 22.339208 | 114.202424 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:24:13 | 4.4 | 9.6 | 22.33920967 | 114.2024208 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:24:14 | 5.4 | 15 | 22.33921367 | 114.2024132 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:24:15 | 4.9 | 20 | 22.3392285 | 114.202397 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:26:21 | 4.7 | 12.8 | 22.34161733 | 114.1942503 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:26:22 | 4.9 | 17.8 | 22.34161717 | 114.1942372 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:27:03 | 4.6 | 9.8 | 22.34156183 | 114.1914877 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:27:04 | 4.8 | 14.7 | 22.3415625 | 114.1914772 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:27:05 | 4.3 | 19 | 22.3415635 | 114.1914552 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:28:07 | 4.1 | 13 | 22.342391 | 114.1882743 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:28:08 | 4.3 | 17.3 | 22.3423975 | 114.1882547 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:33:59 | 4.5 | 22.1 | 22.365489 | 114.180678 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:34:00 | 4.7 | 26.9 | 22.365531 | 114.180673 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:34:01 | 4.1 | 31 | 22.3655825 | 114.1806655 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:37:19 | 4.7 | 8.5 | 22.369168 | 114.1796715 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:37:20 | 5.2 | 13.8 | 22.369161 | 114.1796588 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:37:21 | 4.2 | 18.1 | 22.36914967 | 114.1796347 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:38:23 | 4.9 | 10.8 | 22.368835 | 114.1788798 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:38:24 | 5.5 | 16.3 | 22.36883083 | 114.1788707 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:38:25 | 4.7 | 21.1 | 22.3688215 | 114.1788485 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:39:17 | 4.5 | 7.1 | 22.36849333 | 114.1780698 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:39:18 | 5.2 | 12.4 | 22.36849167 | 114.1780665 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:39:19 | 5.2 | 17.6 | 22.36848583 | 114.1780515 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:39:20 | 4.2 | 21.9 | 22.36847533 | 114.1780237 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:39:50 | 5 | 5 | 22.3675925 | 114.1765657 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:39:51 | 4.6 | 9.6 | 22.36759133 | 114.1765652 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:39:52 | 5.5 | 15.1 | 22.36758517 | 114.176557 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:39:53 | 5 | 20.2 | 22.3675715 | 114.176539 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:40:23 | 4 | 23.4 | 22.36626517 | 114.1764247 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:41:22 | 4.2 | 13.2 | 22.36543133 | 114.1753227 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:41:23 | 4.7 | 18 | 22.36542133 | 114.1753045 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:42:38 | 4.8 | 9.2 | 22.362887 | 114.1724238 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:42:39 | 6.2 | 15.5 | 22.36288733 | 114.1724193 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:42:40 | 5.7 | 21.2 | 22.36288733 | 114.1723983 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:44:37 | 4.4 | 25.3 | 22.363637 | 114.1712585 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:45:04 | 4.5 | 23.3 | 22.36496833 | 114.1724983 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:45:31 | 5.3 | 9.6 | 22.36560633 | 114.1730037 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:45:32 | 6 | 15.7 | 22.36561183 | 114.1730137 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:45:33 | 5.6 | 21.3 | 22.36562883 | 114.1730362 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:46:26 | 5.9 | 5.9 | 22.367279 | 114.1741747 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:46:27 | 5.9 | 11.9 | 22.36727567 | 114.1741737 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:46:28 | 4.9 | 16.8 | 22.36728367 | 114.1741772 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:47:15 | 4.9 | 7.7 | 22.36875733 | 114.1749402 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:47:16 | 5.7 | 13.5 | 22.36876067 | 114.1749427 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:47:17 | 6.3 | 19.9 | 22.36877383 | 114.1749532 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:48:05 | 4.2 | 26.5 | 22.371372 | 114.1782757 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:48:46 | 4.7 | 13.1 | 22.37326467 | 114.1770698 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:48:47 | 5.3 | 18.5 | 22.373281 | 114.1770592 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:48:48 | 4.1 | 22.6 | 22.373316 | 114.1770527 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:50:01 | 5.5 | 5.5 | 22.37406033 | 114.1766375 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:50:02 | 5.6 | 11.2 | 22.37406033 | 114.1766375 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:50:03 | 5.6 | 16.8 | 22.37407733 | 114.1766242 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:50:09 | 4.1 | 25.8 | 22.37431667 | 114.1766263 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:50:10 | 4.4 | 30.2 | 22.37434567 | 114.1766698 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:50:33 | 4.7 | 7.7 | 22.37509633 | 114.1778673 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:51:07 | 5.1 | 10 | 22.37541367 | 114.177664 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:51:08 | 6.1 | 16.1 | 22.37542067 | 114.1776585 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:51:09 | 5 | 21.1 | 22.37544117 | 114.177646 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:52:12 | 5 | 6.3 | 22.37621583 | 114.1769478 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:52:13 | 5.5 | 11.9 | 22.37621733 | 114.1769467 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:52:14 | 5.1 | 17.1 | 22.3762315 | 114.1769425 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:53:23 | 4.4 | 4.4 | 22.375792 | 114.1759067 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:53:24 | 4.9 | 9.4 | 22.375792 | 114.1759067 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:53:25 | 5.9 | 15.3 | 22.375788 | 114.1759005 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:53:26 | 5.3 | 20.7 | 22.37577717 | 114.1758827 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:54:40 | 5 | 9.3 | 22.37728233 | 114.173968 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:54:41 | 5.7 | 15 | 22.37728733 | 114.1739662 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:54:42 | 5 | 20.1 | 22.3773045 | 114.1739617 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:55:17 | 7.1 | 8.5 | 22.3773555 | 114.173122 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:55:18 | 6.6 | 15.2 | 22.37735317 | 114.1731192 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:55:19 | 5.1 | 20.4 | 22.37734767 | 114.1731002 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:56:00 | 4.5 | 9.3 | 22.37667767 | 114.1711922 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:56:01 | 5 | 14.3 | 22.3766735 | 114.1711828 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:57:00 | 6.4 | 6.4 | 22.37593683 | 114.170573 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:57:01 | 6.3 | 12.8 | 22.37593733 | 114.170575 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:57:26 | 4.5 | 20.2 | 22.37648067 | 114.1710143 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:57:27 | 4.3 | 24.6 | 22.3765 | 114.1710573 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:58:29 | 5.6 | 9.3 | 22.377352 | 114.1735813 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:58:30 | 6 | 15.3 | 22.37735667 | 114.173587 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:58:31 | 4.8 | 20.1 | 22.37736433 | 114.173607 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:58:32 | 4.9 | 25.1 | 22.37737417 | 114.1736433 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 18:02:54 | 2018-07-29 18:05:00 | 2018-07-29 18:59:48 | 4.4 | 6.9 | 22.37783267 | 114.1752528 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-29 20:06:37 | NULL | 2018-07-29 20:07:16 | 6.2 | 6.2 | 22.377791 | 114.1751138 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-29 20:06:37 | NULL | 2018-07-29 20:09:55 | 4.2 | 11.8 | 22.37771833 | 114.174943 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:11:12 | 4.6 | 8.7 | 22.37780033 | 114.1746428 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:11:13 | 4.3 | 13 | 22.37779817 | 114.1746417 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:12:31 | 4.2 | 9.4 | 22.37679583 | 114.1750233 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:12:38 | 4.7 | 22.5 | 22.37662283 | 114.174966 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:14:09 | 4.7 | 11 | 22.37612317 | 114.1708613 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:14:27 | 4.5 | 18.8 | 22.37657283 | 114.1710497 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:14:28 | 4.9 | 23.7 | 22.37658317 | 114.1711185 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:15:54 | 5.4 | 5.4 | 22.3774145 | 114.1738067 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:15:55 | 5.7 | 11.1 | 22.37744133 | 114.1738007 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:15:56 | 6.2 | 17.4 | 22.37745367 | 114.1738092 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:15:57 | 5.1 | 22.6 | 22.377466 | 114.1738332 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:16:39 | 5.2 | 12.8 | 22.37587267 | 114.1755618 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:16:40 | 5.2 | 18 | 22.375859 | 114.1755697 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:16:41 | 4.2 | 22.2 | 22.37583517 | 114.1755835 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:17:28 | 5 | 8.9 | 22.37389983 | 114.1769218 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:17:29 | 4.3 | 13.3 | 22.37389533 | 114.1769277 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:17:54 | 4.1 | 14.1 | 22.37377467 | 114.1770363 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:17:55 | 5 | 19.1 | 22.37375533 | 114.1770487 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:18:31 | 6.8 | 6.8 | 22.37176467 | 114.1786622 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:18:32 | 4.8 | 11.7 | 22.3717605 | 114.178662 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:18:33 | 6.4 | 18.2 | 22.37174833 | 114.1786682 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:18:34 | 4.6 | 22.8 | 22.3717305 | 114.1786858 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:19:52 | 4.1 | 7 | 22.368622 | 114.1751172 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:19:53 | 5.3 | 12.3 | 22.36861733 | 114.1751132 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:19:54 | 5.4 | 17.8 | 22.3686055 | 114.175102 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:20:17 | 4.1 | 4.1 | 22.36792767 | 114.1746205 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:20:18 | 5.1 | 9.2 | 22.36792767 | 114.1746205 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:20:19 | 5.7 | 15 | 22.36792083 | 114.1746168 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:20:20 | 5.4 | 20.5 | 22.36790417 | 114.174607 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:20:21 | 4.1 | 24.7 | 22.36787367 | 114.1745923 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:21:41 | 5.4 | 14.8 | 22.36528233 | 114.1730033 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:21:42 | 5.7 | 20.6 | 22.36527183 | 114.1729853 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:22:16 | 4.6 | 12.1 | 22.36412817 | 114.1719633 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:22:17 | 5.8 | 17.9 | 22.364117 | 114.1719502 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:22:18 | 4.5 | 22.4 | 22.36409933 | 114.1719277 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:22:35 | 4.4 | 21.4 | 22.36335817 | 114.1713455 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:23:02 | 5.5 | 13.9 | 22.3632435 | 114.1729117 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:23:03 | 5.6 | 19.6 | 22.36325067 | 114.17293 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:24:33 | 5 | 9 | 22.363823 | 114.1737657 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:24:34 | 5.9 | 14.9 | 22.36382883 | 114.1737735 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:24:35 | 5.6 | 20.5 | 22.363836 | 114.1737958 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:25:34 | 4.4 | 21.6 | 22.365762 | 114.1756023 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:26:41 | 4.7 | 4.7 | 22.36679933 | 114.176391 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:26:42 | 5 | 9.8 | 22.3667995 | 114.1763908 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:26:43 | 5.1 | 14.9 | 22.36681433 | 114.1763828 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:27:47 | 5 | 8.1 | 22.36860883 | 114.178182 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:27:48 | 5.4 | 13.5 | 22.36860817 | 114.1781782 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:29:21 | 5 | 11.6 | 22.3692665 | 114.1798657 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:29:22 | 4 | 15.7 | 22.36927183 | 114.1798783 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:36:11 | 5.2 | 8.6 | 22.3426275 | 114.1864112 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:36:12 | 5.6 | 14.3 | 22.3426265 | 114.1864192 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:36:13 | 5.9 | 20.2 | 22.34261983 | 114.1864388 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:36:14 | 5.2 | 25.4 | 22.3426085 | 114.1864725 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:36:15 | 4.2 | 29.7 | 22.34259467 | 114.1865213 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:36:16 | 4.5 | 34.3 | 22.342583 | 114.1865865 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:37:58 | 4.1 | 23.5 | 22.34175933 | 114.1923718 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:39:29 | 4.4 | 8.1 | 22.34176417 | 114.1953078 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:39:30 | 5.1 | 13.3 | 22.34176517 | 114.1953147 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:39:31 | 5 | 18.4 | 22.341768 | 114.1953332 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:39:59 | 4.4 | 9.8 | 22.34179917 | 114.1956855 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:40:00 | 5.1 | 14.9 | 22.34179767 | 114.1956995 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:40:01 | 4.9 | 19.8 | 22.34178967 | 114.1957252 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:40:02 | 4.3 | 24.2 | 22.341792 | 114.1957647 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:41:52 | 4.4 | 17.3 | 22.33942767 | 114.2029315 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:42:17 | 4.9 | 10 | 22.33866917 | 114.2038723 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:42:18 | 6 | 16 | 22.33866067 | 114.2038788 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:42:19 | 5.3 | 21.4 | 22.33864267 | 114.203895 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:43:13 | 4.8 | 6.9 | 22.3367975 | 114.2070307 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:43:14 | 5 | 11.9 | 22.336797 | 114.207032 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:43:32 | 4.4 | 19 | 22.33642117 | 114.2073362 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:43:33 | 4.8 | 23.9 | 22.33639033 | 114.207351 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:45:42 | 4.2 | 7.8 | 22.32534883 | 114.2143142 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:45:43 | 5.3 | 13.2 | 22.32534283 | 114.214312 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:45:44 | 6.2 | 19.4 | 22.3253255 | 114.2143012 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:48:20 | 4.5 | 6.3 | 22.315526 | 114.2183525 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:48:21 | 5.6 | 11.9 | 22.315524 | 114.2183535 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:48:22 | 5.4 | 17.3 | 22.31551867 | 114.2183662 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:49:08 | 4.7 | 4.7 | 22.3144715 | 114.2211 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:49:09 | 4.9 | 9.6 | 22.31447183 | 114.2211005 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:49:10 | 5.8 | 15.5 | 22.31446917 | 114.221109 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:49:11 | 5.4 | 21 | 22.31446167 | 114.2211302 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:49:52 | 4.7 | 9.5 | 22.31378367 | 114.2229492 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:49:53 | 5.6 | 15.1 | 22.31378 | 114.2229563 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:49:54 | 5.4 | 20.5 | 22.31376917 | 114.2229747 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:51:27 | 5.2 | 10.8 | 22.31306317 | 114.2249078 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:51:28 | 6.2 | 17 | 22.31305867 | 114.2249175 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:51:29 | 5 | 22.1 | 22.31304967 | 114.2249408 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:52:38 | 5.9 | 11.5 | 22.31137433 | 114.225732 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 20:06:37 | 2018-07-29 20:10:00 | 2018-07-29 20:52:39 | 5.4 | 16.9 | 22.3113675 | 114.2257233 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-29 21:08:21 | NULL | 2018-07-29 21:09:56 | 4.4 | 10.2 | 22.30793733 | 114.2218637 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:10:01 | 4.7 | 20.4 | 22.30804233 | 114.2219382 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:12:10 | 4.9 | 7.7 | 22.30897267 | 114.2284107 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:12:11 | 6.2 | 14 | 22.3090025 | 114.2284177 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:12:12 | 6.6 | 20.6 | 22.30902867 | 114.2284317 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:12:13 | 4.6 | 25.2 | 22.30906067 | 114.2284542 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:12:35 | 5.9 | 5.9 | 22.310099 | 114.2291065 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:12:43 | 4.8 | 25.2 | 22.31032017 | 114.2291238 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:13:21 | 5.8 | 9.3 | 22.31183417 | 114.2266505 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:13:22 | 6.2 | 15.5 | 22.31184283 | 114.2266477 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:13:23 | 5.6 | 21.2 | 22.31185283 | 114.226629 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:14:00 | 4.5 | 20.3 | 22.3128675 | 114.2246882 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:14:01 | 4.7 | 25 | 22.31288467 | 114.2246533 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:14:57 | 4.2 | 19.3 | 22.31320133 | 114.2238703 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:15:21 | 4.3 | 6.7 | 22.31338667 | 114.2234472 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:15:22 | 5.2 | 11.9 | 22.31338883 | 114.2234432 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:15:23 | 5.5 | 17.5 | 22.31339467 | 114.2234295 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:16:15 | 4.8 | 11.8 | 22.31416017 | 114.2212158 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:16:16 | 5.3 | 17.2 | 22.31416733 | 114.2212028 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:16:17 | 4.5 | 21.8 | 22.314177 | 114.2211773 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:16:56 | 4.6 | 6.8 | 22.31506917 | 114.2188727 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:16:57 | 5.2 | 12.1 | 22.3150715 | 114.2188685 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:16:58 | 5.8 | 17.9 | 22.31507817 | 114.218855 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:17:46 | 4.8 | 8.5 | 22.31647633 | 114.2157313 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:17:47 | 5.3 | 13.8 | 22.31647983 | 114.2157282 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:17:48 | 4.2 | 18 | 22.316493 | 114.2157147 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:20:13 | 4.5 | 7.9 | 22.32014433 | 114.2145172 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:20:14 | 5.5 | 13.4 | 22.32015 | 114.214519 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:20:15 | 6.1 | 19.5 | 22.32016733 | 114.2145272 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:20:16 | 4.5 | 24.1 | 22.32019717 | 114.21453 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:21:08 | 4.1 | 6.4 | 22.322066 | 114.2143068 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:22:14 | 4.5 | 20.4 | 22.32417017 | 114.2141983 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:22:58 | 5.2 | 9 | 22.32546083 | 114.2139812 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:23:13 | 4.6 | 10 | 22.325557 | 114.2139605 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:23:14 | 5.9 | 15.9 | 22.3255675 | 114.2139602 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:23:15 | 5.2 | 21.2 | 22.32559017 | 114.2139622 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:24:31 | 4.3 | 10.8 | 22.32878433 | 114.2118572 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:26:49 | 4.4 | 8.6 | 22.33659867 | 114.2067625 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:26:52 | 5.1 | 21.8 | 22.33663783 | 114.206718 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:28:16 | 4.9 | 13.1 | 22.33918683 | 114.202466 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:28:17 | 5.5 | 18.6 | 22.33920333 | 114.202455 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:29:47 | 4.1 | 7.5 | 22.34161767 | 114.1943105 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:29:48 | 5.3 | 12.8 | 22.34161717 | 114.194305 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:29:49 | 5.3 | 18.2 | 22.3416165 | 114.194288 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:30:28 | 4.8 | 4.8 | 22.34157433 | 114.1915147 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:30:29 | 4.4 | 9.2 | 22.341574 | 114.191514 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:30:30 | 5.7 | 14.9 | 22.34157367 | 114.1915047 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:30:31 | 4.9 | 19.9 | 22.34157533 | 114.1914833 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:31:21 | 4.4 | 8.9 | 22.3423535 | 114.1883393 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:31:22 | 5.7 | 14.6 | 22.34235717 | 114.1883305 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:31:23 | 4.5 | 19.2 | 22.3423665 | 114.1883107 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:39:59 | 4.5 | 18.3 | 22.36909083 | 114.1795603 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:40:00 | 4.2 | 22.5 | 22.36907367 | 114.1795252 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:40:46 | 4.9 | 9.6 | 22.36859167 | 114.1783262 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:40:47 | 5.5 | 15.2 | 22.3685915 | 114.1783207 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:40:48 | 5.1 | 20.3 | 22.36858367 | 114.1783022 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:41:56 | 4.4 | 8.9 | 22.36761017 | 114.1766417 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:41:57 | 4.5 | 13.5 | 22.367602 | 114.1766255 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:43:21 | 4.5 | 8.3 | 22.36744133 | 114.1763715 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:43:22 | 4.4 | 12.8 | 22.367445 | 114.1763687 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:43:48 | 4.4 | 22.3 | 22.36627983 | 114.1765178 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:44:37 | 4.3 | 17.9 | 22.3655245 | 114.1754445 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:46:00 | 5.1 | 12.7 | 22.3628985 | 114.1724712 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:46:01 | 5 | 17.8 | 22.36289717 | 114.1724523 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:46:02 | 5.7 | 23.6 | 22.36289533 | 114.1724213 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:47:07 | 5.4 | 16.4 | 22.363379 | 114.17135 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:47:14 | 4.2 | 19.1 | 22.363587 | 114.1712483 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:47:15 | 5 | 24.1 | 22.36361633 | 114.171266 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:47:37 | 4.2 | 17.3 | 22.36468167 | 114.1722773 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:48:09 | 4.4 | 8.6 | 22.36556917 | 114.1729838 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:48:15 | 4.4 | 21.1 | 22.36565383 | 114.173109 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:48:16 | 4.5 | 25.7 | 22.3656775 | 114.173142 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:48:45 | 5.2 | 13.1 | 22.36724017 | 114.174171 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:48:46 | 5.2 | 18.3 | 22.36725517 | 114.1741767 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:50:33 | 4.4 | 10.8 | 22.37251883 | 114.1776598 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:51:04 | 4.2 | 6.8 | 22.37320633 | 114.1770323 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:51:05 | 5.1 | 11.9 | 22.37321267 | 114.1770295 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:51:07 | 4.6 | 22.5 | 22.373285 | 114.1770413 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:52:08 | 5.4 | 10.4 | 22.37399817 | 114.1766227 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:52:09 | 6 | 16.4 | 22.37400833 | 114.1766187 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:53:07 | 5.9 | 16.9 | 22.375454 | 114.1775925 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:53:08 | 4.8 | 21.8 | 22.37547717 | 114.1775775 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:54:24 | 4.8 | 9.9 | 22.37624267 | 114.176904 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:54:56 | 5.4 | 9.6 | 22.37567517 | 114.1759258 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:54:57 | 6 | 15.7 | 22.3756705 | 114.1759188 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:54:58 | 5.3 | 21 | 22.375658 | 114.1759007 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:55:59 | 5.3 | 9.2 | 22.37728183 | 114.1739205 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:56:00 | 5.4 | 14.6 | 22.37728783 | 114.1739192 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:56:45 | 4.1 | 22.7 | 22.376239 | 114.1703628 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:57:44 | 4.6 | 20.2 | 22.3766125 | 114.171042 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:57:45 | 4.3 | 24.6 | 22.37664267 | 114.1710688 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:59:19 | 5.3 | 9.3 | 22.37753167 | 114.1737618 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:59:20 | 6.3 | 15.6 | 22.37752983 | 114.173752 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:59:21 | 5.9 | 21.6 | 22.37753383 | 114.1737707 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 21:08:21 | 2018-07-29 21:10:00 | 2018-07-29 21:59:22 | 4.2 | 25.8 | 22.37753967 | 114.1738053 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:05:50 | 4.7 | 6.7 | 22.37673017 | 114.1750162 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:05:51 | 4.5 | 11.3 | 22.37673667 | 114.1750127 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:05:56 | 4.1 | 18 | 22.37661533 | 114.1749927 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:05:57 | 4.4 | 22.5 | 22.37659367 | 114.1749607 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:07:32 | 4.8 | 10.9 | 22.37610383 | 114.1707943 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:07:33 | 4.1 | 15 | 22.37610883 | 114.1708062 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:07:49 | 4.6 | 19 | 22.37653717 | 114.1709715 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:07:50 | 4.7 | 23.8 | 22.37656983 | 114.1709822 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:08:37 | 4.2 | 4.2 | 22.37690733 | 114.1717338 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:08:38 | 4.6 | 8.8 | 22.37690733 | 114.1717338 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:08:39 | 5.5 | 14.4 | 22.37689833 | 114.1717497 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:08:40 | 5.4 | 19.8 | 22.37689267 | 114.1717778 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:08:41 | 4.2 | 24.1 | 22.37690267 | 114.1718103 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:09:15 | 6.1 | 8.5 | 22.37746983 | 114.1736143 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:09:16 | 6.1 | 14.6 | 22.37747117 | 114.1736198 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:09:17 | 6.3 | 20.9 | 22.3774735 | 114.1736372 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:09:58 | 4.6 | 4.6 | 22.37589117 | 114.1755332 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:09:59 | 4.3 | 8.9 | 22.37588967 | 114.1755367 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:10:00 | 5.5 | 14.4 | 22.37588417 | 114.1755418 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:10:01 | 5.1 | 19.5 | 22.375869 | 114.1755527 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:10:48 | 4.7 | 8.2 | 22.3738185 | 114.1770115 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:10:49 | 5.7 | 13.9 | 22.373814 | 114.1770148 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:10:50 | 6.5 | 20.4 | 22.3737985 | 114.1770237 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:10:51 | 4.4 | 24.8 | 22.37377017 | 114.177036 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:11:19 | 4.6 | 9.6 | 22.37307183 | 114.1775247 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:11:20 | 5.3 | 15 | 22.37306283 | 114.1775308 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:11:21 | 5.8 | 20.9 | 22.37305017 | 114.1775477 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:11:22 | 4.1 | 25 | 22.37302983 | 114.1775657 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:11:47 | 7.3 | 9.7 | 22.37177667 | 114.1786273 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:11:48 | 6.8 | 16.5 | 22.371776 | 114.1786318 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:11:49 | 5.1 | 21.7 | 22.37176483 | 114.1786482 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:12:59 | 5.2 | 10 | 22.36862367 | 114.1750943 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:13:00 | 6 | 16.1 | 22.36861767 | 114.1750878 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:13:01 | 5 | 21.2 | 22.36860133 | 114.1750725 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:14:07 | 5.3 | 6.8 | 22.3678735 | 114.17457 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:14:08 | 5.5 | 12.3 | 22.367873 | 114.174566 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:14:09 | 6.1 | 18.5 | 22.3678625 | 114.1745582 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:14:10 | 4.6 | 23.1 | 22.36784333 | 114.1745387 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:15:14 | 4.4 | 8.9 | 22.3641545 | 114.171935 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:15:15 | 5.4 | 14.4 | 22.3641495 | 114.1719292 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:15:16 | 5.6 | 20.1 | 22.364137 | 114.1719135 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:15:40 | 4.6 | 7.1 | 22.36368167 | 114.1714752 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:15:41 | 4.8 | 12 | 22.363679 | 114.1714752 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:15:42 | 5.5 | 17.6 | 22.36366867 | 114.1714662 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:15:51 | 5 | 22.4 | 22.3633805 | 114.1713623 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:16:47 | 4.6 | 6.8 | 22.36388167 | 114.1737893 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:16:48 | 5.4 | 12.2 | 22.36388267 | 114.1737942 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:16:49 | 6 | 18.2 | 22.36388633 | 114.173806 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:16:50 | 4.5 | 22.7 | 22.36389733 | 114.1738327 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:17:54 | 5 | 16.9 | 22.36547017 | 114.1753115 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:17:55 | 5 | 21.9 | 22.36548633 | 114.1753343 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:18:58 | 4.3 | 7.4 | 22.36621233 | 114.1761758 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:18:59 | 4.4 | 11.9 | 22.36620933 | 114.1761707 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:19:58 | 4.9 | 8.9 | 22.36702933 | 114.1762358 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:19:59 | 6.3 | 15.2 | 22.36703583 | 114.1762325 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:20:00 | 5.1 | 20.4 | 22.36705417 | 114.1762232 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:21:03 | 4.7 | 4.7 | 22.36862283 | 114.1782528 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:21:04 | 4.8 | 9.6 | 22.36862283 | 114.1782528 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:21:05 | 5.5 | 15.1 | 22.368629 | 114.1782628 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:22:07 | 4.4 | 6.6 | 22.3690275 | 114.179166 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:22:08 | 4.6 | 11.2 | 22.36902883 | 114.1791722 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:22:09 | 5.2 | 16.4 | 22.36903267 | 114.1791875 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:22:10 | 4.7 | 21.2 | 22.36903367 | 114.1792152 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:22:39 | 4.5 | 8.2 | 22.36928517 | 114.1799345 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:22:40 | 4.8 | 13.1 | 22.36928883 | 114.1799462 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:29:32 | 4.8 | 9.8 | 22.34263817 | 114.1863385 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:29:33 | 5.5 | 15.4 | 22.34263417 | 114.1863765 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:29:34 | 5.6 | 21 | 22.34262633 | 114.1864097 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:29:35 | 4.9 | 26 | 22.34261533 | 114.1864498 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:31:00 | 5.5 | 5.5 | 22.3417595 | 114.19183 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:33:11 | 5.4 | 5.4 | 22.34179767 | 114.1954708 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:33:12 | 4.8 | 10.2 | 22.34180567 | 114.1954827 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:33:13 | 5.2 | 15.5 | 22.34180717 | 114.195498 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:33:27 | 4.1 | 8.3 | 22.34180683 | 114.1957322 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:33:28 | 4.9 | 13.3 | 22.3418055 | 114.1957377 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:33:29 | 5.7 | 19 | 22.34180167 | 114.1957553 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:33:30 | 4.1 | 23.2 | 22.3417975 | 114.195786 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:35:18 | 4.1 | 12.4 | 22.33951283 | 114.202793 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:35:19 | 4.5 | 17 | 22.33949933 | 114.2028048 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:35:20 | 4.2 | 21.2 | 22.33947783 | 114.2028235 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:35:44 | 6.6 | 9.6 | 22.33862217 | 114.2038447 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:35:45 | 6.2 | 15.8 | 22.33862283 | 114.2038477 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:35:46 | 5.2 | 21 | 22.33861133 | 114.2038607 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:39:26 | 4.2 | 8.1 | 22.3253355 | 114.21432 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:39:27 | 4.9 | 13 | 22.3253295 | 114.2143018 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:39:28 | 6.1 | 19.1 | 22.3253125 | 114.2142868 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:40:24 | 4.9 | 7.3 | 22.32119217 | 114.2146947 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:40:25 | 5.8 | 13.2 | 22.3211885 | 114.2146947 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:40:26 | 6 | 19.2 | 22.321174 | 114.2146925 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:41:17 | 5.7 | 9.5 | 22.317637 | 114.2152105 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:41:18 | 6.2 | 15.8 | 22.317636 | 114.2152133 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:41:19 | 5.3 | 21.2 | 22.31761883 | 114.215222 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:42:26 | 5.5 | 5.5 | 22.3156845 | 114.2179713 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:42:27 | 5.4 | 11 | 22.31568267 | 114.2179748 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:43:21 | 5 | 7.4 | 22.31446617 | 114.2211548 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:43:22 | 5.7 | 13.2 | 22.31446467 | 114.221159 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:43:23 | 5.7 | 19 | 22.314459 | 114.2211737 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:43:58 | 4.5 | 10 | 22.313905 | 114.2225977 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:43:59 | 4.9 | 14.9 | 22.3139005 | 114.2226088 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:45:26 | 6 | 7.4 | 22.313051 | 114.2249635 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:45:27 | 5.7 | 13.1 | 22.31304933 | 114.2249668 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:45:28 | 6.4 | 19.6 | 22.31304267 | 114.2249798 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:45:48 | 4.6 | 22.1 | 22.31257267 | 114.2262198 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:47:03 | 5.3 | 9.3 | 22.309572 | 114.2234797 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:47:04 | 5.8 | 15.1 | 22.30955767 | 114.2234822 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-29 22:03:12 | 2018-07-29 22:04:00 | 2018-07-29 22:47:05 | 5.5 | 20.7 | 22.30954083 | 114.2234693 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:05:58 | 5.4 | 5.4 | 22.30790333 | 114.2218773 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:06:22 | 4.6 | 20 | 22.308575 | 114.2220545 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:06:23 | 4.6 | 24.7 | 22.30861083 | 114.2220645 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:07:27 | 4.6 | 17.4 | 22.30807217 | 114.225619 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:07:28 | 4.9 | 22.3 | 22.308089 | 114.225644 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:08:52 | 5.2 | 11.7 | 22.3087765 | 114.2278015 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:08:53 | 5.8 | 17.5 | 22.3087675 | 114.2278088 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:09:00 | 4.2 | 27.1 | 22.308588 | 114.2280395 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:09:24 | 5.3 | 16.5 | 22.30908333 | 114.2283832 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:09:25 | 5.2 | 21.7 | 22.30910483 | 114.2284023 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:09:44 | 4.5 | 26 | 22.3103505 | 114.2290962 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:10:15 | 4.7 | 26.5 | 22.3119165 | 114.226587 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:12:21 | 4.3 | 4.3 | 22.31343583 | 114.2234235 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:12:22 | 5.3 | 9.6 | 22.31343583 | 114.2234235 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:12:23 | 5.9 | 15.6 | 22.3134385 | 114.2234162 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:12:24 | 5.1 | 20.8 | 22.3134475 | 114.223397 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:13:07 | 5.3 | 11.2 | 22.31422533 | 114.2212102 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:13:08 | 6.2 | 17.5 | 22.31423183 | 114.2211987 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:13:09 | 5 | 22.5 | 22.314243 | 114.2211737 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:13:55 | 4.2 | 6.8 | 22.31519283 | 114.2187608 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:13:56 | 4.6 | 11.4 | 22.31519383 | 114.2187562 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:13:57 | 4.3 | 15.8 | 22.31519717 | 114.218742 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:16:08 | 4.2 | 14 | 22.32231933 | 114.21432 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:16:09 | 5.2 | 19.3 | 22.3223415 | 114.2143188 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:17:00 | 5 | 8.4 | 22.32560583 | 114.2139262 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:17:01 | 4.7 | 13.2 | 22.32561017 | 114.213928 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:17:02 | 6 | 19.2 | 22.3256265 | 114.2139263 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:17:03 | 4.4 | 23.6 | 22.32565617 | 114.2139225 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:17:47 | 5.8 | 5.8 | 22.328804 | 114.211794 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:17:48 | 4.8 | 10.7 | 22.32880617 | 114.2117918 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:17:49 | 5.4 | 16.2 | 22.32881317 | 114.211784 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:17:50 | 4.9 | 21.2 | 22.32882983 | 114.211768 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:18:34 | 4.1 | 23.3 | 22.33081267 | 114.2096567 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:20:08 | 5.3 | 13.1 | 22.33422467 | 114.20792 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:20:09 | 5.7 | 18.9 | 22.3342405 | 114.2079258 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:20:10 | 4.7 | 23.6 | 22.334268 | 114.207933 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:21:37 | 5 | 11.2 | 22.33663967 | 114.2068013 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:21:38 | 5.5 | 16.7 | 22.33664717 | 114.206793 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:21:39 | 4.4 | 21.2 | 22.33666283 | 114.2067735 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:22:42 | 4.5 | 9.9 | 22.339198 | 114.2024775 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:22:43 | 5.2 | 15.2 | 22.339203 | 114.2024662 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:22:44 | 4.9 | 20.2 | 22.3392175 | 114.2024483 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:24:25 | 4.4 | 9.5 | 22.34159433 | 114.1942605 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:24:26 | 5.2 | 14.7 | 22.34159533 | 114.1942512 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:24:27 | 5 | 19.7 | 22.3415975 | 114.1942302 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:25:14 | 5 | 12.4 | 22.34153983 | 114.191485 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:25:15 | 5.3 | 17.7 | 22.34154017 | 114.1914678 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:26:12 | 4.8 | 14.4 | 22.34235183 | 114.1883135 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:32:08 | 5.5 | 7.2 | 22.36569283 | 114.1806132 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:32:09 | 5.8 | 13.1 | 22.3657005 | 114.180613 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:32:10 | 5.8 | 18.9 | 22.365719 | 114.1806103 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:32:11 | 5.3 | 24.3 | 22.36575233 | 114.1806057 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:33:16 | 4.4 | 6.6 | 22.36887883 | 114.1790293 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:33:17 | 4.6 | 11.2 | 22.3688745 | 114.1790228 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:33:18 | 4.9 | 16.2 | 22.368867 | 114.1790078 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:33:19 | 4.4 | 20.6 | 22.36885617 | 114.1789823 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:34:04 | 4.7 | 12.6 | 22.36847033 | 114.178057 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:34:05 | 5.2 | 17.9 | 22.36846383 | 114.1780407 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:35:35 | 5.1 | 14.1 | 22.36543817 | 114.175348 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:36:52 | 4.9 | 9.5 | 22.36286467 | 114.1724588 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:36:53 | 5.9 | 15.4 | 22.36286317 | 114.1724497 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:36:54 | 5.4 | 20.8 | 22.36286183 | 114.1724273 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:37:34 | 4.2 | 4.2 | 22.363355 | 114.1713423 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:37:35 | 5.2 | 9.4 | 22.363355 | 114.1713423 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:37:44 | 4.6 | 21.3 | 22.36361167 | 114.1712887 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:38:24 | 5.1 | 7 | 22.365551 | 114.1730053 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:38:25 | 5.7 | 12.8 | 22.36555283 | 114.1730085 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:38:26 | 6.3 | 19.1 | 22.36556133 | 114.1730198 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:39:11 | 5.9 | 7.6 | 22.36744183 | 114.1742572 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:39:12 | 6 | 13.6 | 22.36743983 | 114.1742563 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:39:13 | 5.5 | 19.2 | 22.36745317 | 114.174262 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:39:50 | 4.4 | 6.3 | 22.368843 | 114.1750378 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:39:51 | 6.3 | 12.7 | 22.36884467 | 114.1750392 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:39:52 | 5.8 | 18.5 | 22.36885417 | 114.1750478 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:39:53 | 5.1 | 23.6 | 22.36887217 | 114.1750685 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:42:15 | 4.7 | 14 | 22.37329767 | 114.1770747 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:42:16 | 4.8 | 18.8 | 22.3733195 | 114.177071 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:43:40 | 4.3 | 6.8 | 22.37403867 | 114.1766193 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:43:41 | 5.6 | 12.4 | 22.37403733 | 114.1766207 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:43:42 | 4.9 | 17.3 | 22.37404817 | 114.1766132 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:44:24 | 4.1 | 5.8 | 22.37487467 | 114.1776485 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:44:25 | 5.3 | 11.2 | 22.37488133 | 114.1776547 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:44:26 | 5.5 | 16.8 | 22.37489083 | 114.1776653 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:46:55 | 5.9 | 5.9 | 22.37697133 | 114.174005 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:46:56 | 5.6 | 11.6 | 22.37696867 | 114.1740058 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:46:57 | 4.8 | 16.4 | 22.37697467 | 114.1740025 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:47:37 | 5 | 10.4 | 22.3773245 | 114.1731295 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:47:38 | 5.8 | 16.2 | 22.37732083 | 114.1731185 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:47:39 | 5 | 21.3 | 22.37731783 | 114.1730933 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:49:15 | 5.5 | 8.8 | 22.37600983 | 114.1705505 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:49:16 | 6.2 | 15.1 | 22.3760115 | 114.1705552 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:49:17 | 5.2 | 20.3 | 22.37601767 | 114.1705727 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:49:47 | 4.6 | 19.9 | 22.37660633 | 114.1709118 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:49:48 | 5 | 25 | 22.3766335 | 114.1709408 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:50:59 | 6.1 | 12.3 | 22.37746867 | 114.173505 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | KT.FRY | 2018-07-29 23:05:30 | 2018-07-29 23:05:00 | 2018-07-29 23:51:00 | 6.4 | 18.7 | 22.37747017 | 114.1735163 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:10:02 | 8 | 8 | 22.37778567 | 114.1749133 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:10:29 | 5.7 | 8.6 | 22.37775583 | 114.1747 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:10:31 | 5 | 18.7 | 22.37775267 | 114.1746713 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:11:45 | 5.6 | 7.4 | 22.37676433 | 114.1750537 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:11:51 | 4.8 | 17.9 | 22.3766395 | 114.1750673 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:11:52 | 5.2 | 23.2 | 22.3766155 | 114.1750452 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:13:21 | 5.1 | 10 | 22.37607233 | 114.1708632 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:13:22 | 4.1 | 14.2 | 22.37607583 | 114.170872 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:13:40 | 4.6 | 20.3 | 22.37655033 | 114.1710717 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:13:41 | 4.8 | 25.1 | 22.37658017 | 114.1710998 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:15:08 | 5.5 | 8.4 | 22.37740283 | 114.1737775 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:15:09 | 5.8 | 14.3 | 22.377407 | 114.1737807 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:15:10 | 5.9 | 20.2 | 22.3774135 | 114.173797 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:15:53 | 5.8 | 5.8 | 22.3758745 | 114.1755227 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:15:54 | 5.7 | 11.6 | 22.37587433 | 114.1755237 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:15:55 | 6.2 | 17.9 | 22.3758675 | 114.1755305 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:15:56 | 4.8 | 22.7 | 22.37584717 | 114.1755455 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:16:45 | 5 | 10.5 | 22.3738115 | 114.177018 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:16:46 | 6.2 | 16.7 | 22.373805 | 114.1770235 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:16:47 | 5.7 | 22.5 | 22.37378833 | 114.1770365 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:17:09 | 5.4 | 5.4 | 22.373072 | 114.1775253 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:17:10 | 6.3 | 11.8 | 22.373072 | 114.1775253 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:17:11 | 6.5 | 18.3 | 22.37306333 | 114.1775333 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:17:12 | 5.5 | 23.8 | 22.3730445 | 114.17755 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:17:41 | 5.6 | 9.1 | 22.37176083 | 114.178636 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:17:42 | 7 | 16.2 | 22.37175867 | 114.178641 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:17:43 | 5.6 | 21.8 | 22.3717455 | 114.178656 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:19:24 | 4.8 | 8.4 | 22.36414867 | 114.1719518 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:19:25 | 5.3 | 13.8 | 22.36414367 | 114.1719487 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:19:26 | 6.3 | 20.1 | 22.3641325 | 114.1719327 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:20:10 | 5.2 | 10.7 | 22.36354733 | 114.1713703 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:20:16 | 4.2 | 18.5 | 22.36340917 | 114.1713335 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:20:17 | 4.7 | 23.2 | 22.36338233 | 114.1713555 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:21:04 | 5.5 | 8.2 | 22.363846 | 114.1738097 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:21:05 | 5.7 | 14 | 22.36384483 | 114.173812 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:21:06 | 6.2 | 20.2 | 22.36385383 | 114.1738253 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:21:07 | 4.4 | 24.7 | 22.36387283 | 114.1738505 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:21:44 | 4.5 | 7.9 | 22.36539967 | 114.1752155 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:21:45 | 5.5 | 13.5 | 22.36540367 | 114.1752167 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:21:46 | 5.6 | 19.1 | 22.36541483 | 114.1752308 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:21:47 | 5.1 | 24.2 | 22.36543333 | 114.1752563 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:22:12 | 4.3 | 9.5 | 22.36630633 | 114.176396 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:22:13 | 4.6 | 14.2 | 22.36630983 | 114.1764065 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:22:18 | 4.2 | 22.1 | 22.36641417 | 114.1765465 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:23:05 | 5.7 | 10.5 | 22.36705783 | 114.1762508 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:23:06 | 6.2 | 16.8 | 22.36706633 | 114.1762475 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:23:07 | 5.6 | 22.5 | 22.367087 | 114.1762387 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:24:01 | 6.5 | 19.9 | 22.36871867 | 114.1784365 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:24:02 | 4.6 | 24.5 | 22.3687305 | 114.178466 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:24:28 | 4.6 | 7.5 | 22.36905117 | 114.1791753 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:24:29 | 5.1 | 12.7 | 22.3690515 | 114.1791768 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:24:31 | 4.4 | 23 | 22.369059 | 114.1792235 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:30:28 | 7 | 8.5 | 22.342241 | 114.1900138 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:30:29 | 6.8 | 15.4 | 22.342234 | 114.1900258 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:30:31 | 4.9 | 26.5 | 22.34219683 | 114.190076 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:30:35 | 4.3 | 42.7 | 22.34207283 | 114.1903438 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:31:06 | 5.2 | 12 | 22.34183533 | 114.1918708 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:31:07 | 5.9 | 17.9 | 22.34183517 | 114.1918848 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:31:08 | 5.3 | 23.3 | 22.341829 | 114.1919135 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:31:54 | 5.3 | 8.1 | 22.34183017 | 114.195729 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:31:55 | 5.5 | 13.7 | 22.34183 | 114.1957375 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:31:56 | 5.4 | 19.1 | 22.34182633 | 114.1957577 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:31:57 | 4.7 | 23.8 | 22.34182167 | 114.1957908 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:32:59 | 4.2 | 19.2 | 22.33961667 | 114.2025767 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:33:27 | 5.3 | 11 | 22.33937283 | 114.2029345 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:33:28 | 6 | 17 | 22.339366 | 114.2029418 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:33:29 | 4.7 | 21.8 | 22.33935033 | 114.202962 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:34:36 | 4.5 | 20 | 22.33673917 | 114.2070508 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:34:37 | 5.2 | 25.3 | 22.3367095 | 114.2070755 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:36:37 | 5.6 | 8.8 | 22.325347 | 114.2142725 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:36:38 | 6.1 | 14.9 | 22.32533767 | 114.214276 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:36:39 | 5.8 | 20.8 | 22.325318 | 114.2142707 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:37:32 | 5.3 | 8.3 | 22.32116683 | 114.2146792 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:37:33 | 6 | 14.4 | 22.32116183 | 114.2146802 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:37:34 | 6 | 20.4 | 22.32114383 | 114.2146822 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:38:55 | 4.7 | 9.5 | 22.3155605 | 114.2183882 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:38:56 | 5.6 | 15.1 | 22.31555367 | 114.2183993 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:38:57 | 5.6 | 20.8 | 22.31554433 | 114.2184215 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:39:40 | 5 | 10.5 | 22.31449233 | 114.2211795 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:39:41 | 6.2 | 16.7 | 22.314488 | 114.2211892 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:39:42 | 5.7 | 22.4 | 22.31447817 | 114.2212118 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:40:15 | 5.2 | 8.3 | 22.313757 | 114.2231108 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:40:16 | 6.5 | 14.8 | 22.31375433 | 114.2231152 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:40:17 | 5.7 | 20.5 | 22.3137465 | 114.2231325 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:41:38 | 5.6 | 8.3 | 22.3131515 | 114.2250122 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:41:39 | 6.1 | 14.5 | 22.313136 | 114.2250148 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:41:40 | 6.2 | 20.7 | 22.31312167 | 114.2250288 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:42:26 | 4.2 | 12.5 | 22.311422 | 114.2258308 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:42:27 | 5 | 17.5 | 22.311411 | 114.2258152 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:42:28 | 5.3 | 22.9 | 22.31139417 | 114.2257912 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:43:07 | 5.4 | 12.5 | 22.30992417 | 114.2239815 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:43:08 | 6.4 | 19 | 22.30991667 | 114.2239713 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:43:09 | 4.7 | 23.8 | 22.30990133 | 114.2239488 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:43:24 | 5.1 | 5.1 | 22.309609 | 114.2235662 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:43:25 | 5.7 | 10.8 | 22.309609 | 114.2235662 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:43:26 | 6.7 | 17.5 | 22.309609 | 114.2235547 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:43:27 | 4.9 | 22.5 | 22.3095945 | 114.2235333 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:44:28 | 4.5 | 16.5 | 22.30755817 | 114.2217472 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:44:29 | 5.1 | 21.7 | 22.30759567 | 114.221768 |
| 69496 | | STD | 2018-07-29 | 80 | UU3927 | 80 | MEILAM | 2018-07-30 00:07:57 | 2018-07-30 00:10:00 | 2018-07-30 00:44:44 | 5.1 | 18 | 22.307987 | 114.2219948 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-30 00:07:57 | NULL | 2018-07-30 00:45:59 | 6.7 | 9.3 | 22.30989483 | 114.2212132 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-30 00:07:57 | NULL | 2018-07-30 00:46:01 | 5.9 | 21.5 | 22.309911 | 114.2211963 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-30 00:07:57 | NULL | 2018-07-30 00:47:36 | 5.9 | 11.2 | 22.3137785 | 114.2173933 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-30 00:07:57 | NULL | 2018-07-30 00:47:37 | 6.1 | 17.4 | 22.31378567 | 114.2173872 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-30 00:07:57 | NULL | 2018-07-30 00:47:38 | 5.2 | 22.6 | 22.31379833 | 114.2173653 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-30 00:07:57 | NULL | 2018-07-30 00:58:39 | 4.8 | 19.1 | 22.37241767 | 114.180039 |
| 69496 | | STD | NULL | NULL | UU3927 | NULL | NULL | 2018-07-30 00:07:57 | NULL | 2018-07-30 00:58:40 | 6.1 | 25.2 | 22.37244967 | 114.1800222 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:03:49 | 5.2 | 7.9 | 22.3915265 | 114.2062825 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:05:22 | 4.1 | 4.1 | 22.38745067 | 114.2006483 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:05:23 | 5.2 | 9.3 | 22.38744783 | 114.2006488 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:08:08 | 5 | 6.7 | 22.37807467 | 114.1960948 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:08:09 | 4.5 | 11.3 | 22.378072 | 114.196091 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:08:45 | 5.4 | 15.3 | 22.37673983 | 114.1941968 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:08:47 | 4.5 | 23.8 | 22.37671067 | 114.194149 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:09:23 | 9.2 | 9.4 | 22.37567383 | 114.1922983 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:11:16 | 9.4 | 28.4 | 22.3733765 | 114.1820085 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:11:17 | 9.5 | 18.8 | 22.37331667 | 114.1819197 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:11:18 | 8.1 | 10.7 | 22.37327067 | 114.1818518 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:11:19 | 7.4 | 3.2 | 22.37323817 | 114.1818062 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:12:08 | 5.7 | 6.2 | 22.37321 | 114.1817317 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:12:09 | 4.4 | 10.6 | 22.37320783 | 114.181714 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:12:47 | 5.3 | 6.3 | 22.37218167 | 114.1802062 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:12:50 | 4 | 17.6 | 22.37215433 | 114.1801507 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:13:06 | 7.4 | 0.7 | 22.37148333 | 114.1791345 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:13:10 | 5.1 | 8.1 | 22.37146233 | 114.1791127 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:13:11 | 5.5 | 13.7 | 22.37145683 | 114.1791062 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:13:12 | 5.2 | 19 | 22.3714405 | 114.179092 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:13:13 | 4.2 | 23.2 | 22.37141117 | 114.179071 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:16:52 | 5.8 | 6.7 | 22.3670985 | 114.1762422 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:16:53 | 4.4 | 11.1 | 22.367102 | 114.1762405 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:16:54 | 4.2 | 15.3 | 22.36711717 | 114.1762372 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:17:50 | 5.3 | 8 | 22.36871117 | 114.1783817 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:18:18 | 8.3 | 8.6 | 22.36901767 | 114.1790658 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:23:43 | 4.2 | 44.7 | 22.34291333 | 114.1785887 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:24:52 | 5.4 | 11.7 | 22.34041567 | 114.1792555 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:24:53 | 4.4 | 16.1 | 22.34040183 | 114.1792555 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:24:54 | 5.1 | 21.3 | 22.34037333 | 114.179255 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:26:13 | 6 | 7.6 | 22.33467483 | 114.1787463 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:27:49 | 5.4 | 6.9 | 22.3310185 | 114.1785357 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:27:50 | 4.5 | 11.5 | 22.33101017 | 114.1785352 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:30:03 | 5.7 | 7.8 | 22.321545 | 114.1781747 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:30:06 | 4.5 | 19.5 | 22.32150417 | 114.1781272 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:31:22 | 5.7 | 8.5 | 22.32093517 | 114.1773055 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:32:20 | 7.1 | 20.1 | 22.31784733 | 114.1750083 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:33:02 | 5.7 | 7 | 22.31684783 | 114.1743035 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:33:47 | 5 | 8.5 | 22.314594 | 114.1725765 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:34:16 | 4.7 | 4.9 | 22.31413833 | 114.1722465 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:34:43 | 7 | 7 | 22.31350617 | 114.1718342 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:35:26 | 6.6 | 7 | 22.31209333 | 114.1710303 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:35:28 | 4.2 | 15.7 | 22.31207183 | 114.1710353 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:36:37 | 5.8 | 6.5 | 22.3069025 | 114.1716197 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:36:58 | 5 | 6.8 | 22.30608 | 114.1716087 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:38:08 | 5.4 | 6.8 | 22.30380433 | 114.1716968 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:38:09 | 4.4 | 11.3 | 22.3037965 | 114.171685 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:39:26 | 6.1 | 9.9 | 22.2999925 | 114.1720353 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:41:14 | 5.5 | 8.6 | 22.29522717 | 114.1723893 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:41:16 | 4.3 | 16.5 | 22.29518267 | 114.1723502 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:42:27 | 5.6 | 8.9 | 22.29686133 | 114.1753428 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:42:54 | 5.6 | 7.6 | 22.297591 | 114.1754665 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:43:39 | 5.6 | 6.1 | 22.29915117 | 114.1757442 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-23 23:49:31 | 2018-07-23 23:50:00 | 2018-07-24 00:43:40 | 4.5 | 10.7 | 22.299155 | 114.1757438 |
| 76129 | | STD | NULL | NULL | VD8812 | NULL | NULL | 2018-07-24 01:18:23 | NULL | 2018-07-24 01:19:42 | 4.7 | 8.3 | 22.30387867 | 114.1819762 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:21:50 | 9.7 | 9.7 | 22.3010635 | 114.1766745 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:22:13 | 5.1 | 8.7 | 22.30073183 | 114.1765493 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:22:58 | 5.8 | 7.5 | 22.299763 | 114.1762465 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:23:25 | 5.2 | 7.8 | 22.2989395 | 114.1761303 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:24:41 | 6.4 | 7 | 22.29638633 | 114.1753868 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:24:42 | 4.5 | 11.5 | 22.2963835 | 114.1753732 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:25:02 | 8.4 | 6.8 | 22.29555867 | 114.1741185 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:25:11 | 5.1 | 6.5 | 22.29553 | 114.1740593 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:25:12 | 4.2 | 10.8 | 22.29552583 | 114.1740575 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:26:36 | 4.2 | 4.2 | 22.29517167 | 114.172485 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:26:37 | 5 | 9.2 | 22.29516433 | 114.172485 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:27:37 | 5.5 | 6.9 | 22.29669117 | 114.1721035 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:28:20 | 4.8 | 6.1 | 22.29815883 | 114.171979 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:30:34 | 5.1 | 8.3 | 22.30326333 | 114.171634 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:31:02 | 4.9 | 8.8 | 22.30439417 | 114.1715845 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:32:14 | 5.5 | 5.8 | 22.304986 | 114.1716518 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:32:15 | 4.5 | 10.4 | 22.30498733 | 114.171655 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:32:17 | 4 | 18.4 | 22.305025 | 114.171659 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:32:55 | 4.4 | 4.5 | 22.30701083 | 114.171439 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:32:56 | 4.7 | 9.3 | 22.30701133 | 114.1714358 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:33:25 | 5.8 | 10.7 | 22.30809483 | 114.1714263 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:33:59 | 4.2 | 4.9 | 22.30955567 | 114.1713882 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:34:17 | 4.7 | 4.7 | 22.309877 | 114.1713465 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:34:18 | 4.3 | 9.1 | 22.30987817 | 114.1713467 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:34:51 | 5.1 | 8.4 | 22.31146017 | 114.1709898 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:35:37 | 4.6 | 5.2 | 22.31183033 | 114.1709515 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:35:38 | 4.5 | 9.8 | 22.31183183 | 114.1709495 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:36:11 | 4.8 | 8.6 | 22.31286517 | 114.1707685 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:37:29 | 5 | 6.6 | 22.31596483 | 114.1700525 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:38:16 | 4.5 | 9.2 | 22.318021 | 114.1696165 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:39:38 | 5.4 | 7.9 | 22.3189595 | 114.169499 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:40:09 | 4.2 | 10.6 | 22.3192775 | 114.1685203 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:41:28 | 4.5 | 8 | 22.321112 | 114.1700723 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:43:40 | 4.8 | 9 | 22.320029 | 114.1725368 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:45:13 | 5.7 | 9.8 | 22.32117 | 114.1768972 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:48:23 | 5.3 | 5.3 | 22.33404783 | 114.178803 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:48:24 | 4 | 9.4 | 22.33405067 | 114.1788042 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:48:55 | 6.1 | 6.2 | 22.33595767 | 114.1788592 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:54:03 | 5.5 | 18.3 | 22.35887533 | 114.1740978 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:56:59 | 4.8 | 7.3 | 22.36845367 | 114.1781182 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:58:44 | 5.1 | 7.1 | 22.3654465 | 114.175453 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:59:44 | 8.2 | 11 | 22.36286 | 114.1724872 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 01:59:46 | 4.2 | 18 | 22.36285683 | 114.1724302 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:00:56 | 4.8 | 9 | 22.36333333 | 114.171392 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:02:49 | 4.5 | 4.9 | 22.36747267 | 114.1743245 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:02:50 | 4.7 | 9.6 | 22.36747233 | 114.1743298 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:04:27 | 4.4 | 9.7 | 22.37263183 | 114.180396 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:05:55 | 4.4 | 5.8 | 22.3744635 | 114.1853037 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:06:29 | 5.2 | 7.6 | 22.374427 | 114.1863957 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:06:54 | 4.5 | 9.4 | 22.37489917 | 114.1877238 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:08:01 | 4.1 | 10.1 | 22.37599033 | 114.189426 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:08:53 | 4.6 | 9.8 | 22.37611117 | 114.1915802 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:10:03 | 4.9 | 6.3 | 22.37595533 | 114.1924892 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:10:04 | 4.5 | 10.8 | 22.375953 | 114.1924893 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:10:39 | 4.6 | 4.6 | 22.37649617 | 114.1938058 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:10:40 | 5 | 9.7 | 22.37649933 | 114.1938073 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:11:17 | 5 | 8.4 | 22.377583 | 114.1952272 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:13:08 | 5.1 | 6.1 | 22.38250667 | 114.1956078 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:13:12 | 4.2 | 19.6 | 22.382551 | 114.1956683 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:13:29 | 6 | 9 | 22.38300017 | 114.1961457 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:13:31 | 4.1 | 16.7 | 22.383022 | 114.1961862 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:14:28 | 5.3 | 6.5 | 22.38565083 | 114.1987937 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:14:29 | 4.3 | 10.9 | 22.38565667 | 114.1987985 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:14:31 | 4.7 | 18.4 | 22.38568967 | 114.1988305 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:15:03 | 8.1 | 8.5 | 22.38693283 | 114.2000577 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:16:10 | 5.4 | 8.9 | 22.38921067 | 114.2026 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:16:40 | 5.5 | 7.7 | 22.389463 | 114.2034268 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:16:44 | 4.6 | 20.6 | 22.389487 | 114.2035123 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:17:59 | 5.5 | 7.8 | 22.39073933 | 114.2053923 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:18:34 | 4.8 | 9.5 | 22.3917675 | 114.2063717 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:22:45 | 5.3 | 6.4 | 22.40519917 | 114.2212972 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:22:46 | 4.3 | 10.8 | 22.4052005 | 114.221301 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:23:42 | 4.5 | 6.3 | 22.40555217 | 114.2215355 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:23:43 | 5.1 | 11.4 | 22.4055765 | 114.2215433 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:25:32 | 5.1 | 8.9 | 22.406061 | 114.2224075 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:28:23 | 5.7 | 9.7 | 22.41799533 | 114.2305073 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:28:24 | 4.7 | 14.5 | 22.418002 | 114.2304993 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:28:25 | 5 | 19.6 | 22.41801683 | 114.2304782 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:28:50 | 6.3 | 9 | 22.41821433 | 114.2301377 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:28:51 | 4.6 | 13.7 | 22.41821667 | 114.2301335 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:28:52 | 4.6 | 18.3 | 22.418228 | 114.2301123 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:29:53 | 5.1 | 8.4 | 22.42183283 | 114.2285832 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:31:13 | 5.1 | 7.4 | 22.42224417 | 114.2278823 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:31:50 | 6 | 7.8 | 22.42357617 | 114.2283163 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:32:34 | 4.2 | 4.3 | 22.42504067 | 114.2318092 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:32:35 | 5.2 | 9.5 | 22.4250385 | 114.2318127 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:33:19 | 4.6 | 4.7 | 22.42563067 | 114.2338808 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:33:20 | 5 | 9.7 | 22.42562533 | 114.2338852 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:34:41 | 5 | 5.7 | 22.426022 | 114.2398292 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:34:42 | 4.2 | 9.9 | 22.4260135 | 114.2398302 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:35:31 | 5.5 | 5.8 | 22.42568317 | 114.2399333 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | HH.STN | 2018-07-24 01:18:23 | 2018-07-24 01:20:00 | 2018-07-24 02:35:32 | 4.6 | 10.5 | 22.42567417 | 114.2399353 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:01:04 | 5.3 | 5.5 | 22.42520783 | 114.240002 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:01:05 | 6.1 | 11.7 | 22.42521183 | 114.240001 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:01:07 | 4.2 | 20 | 22.42524567 | 114.239986 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:01:09 | 9.7 | 29.7 | 22.4253325 | 114.2399535 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:02:25 | 4.9 | 9.6 | 22.42621767 | 114.2393105 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:03:51 | 5.5 | 6.7 | 22.42535283 | 114.2343327 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:03:52 | 4.1 | 10.9 | 22.42535233 | 114.2343298 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:05:43 | 5.3 | 9.2 | 22.42253767 | 114.227966 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:09:06 | 6.5 | 11.8 | 22.408149 | 114.2232177 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:09:41 | 5.1 | 5.2 | 22.40746217 | 114.2227483 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:09:42 | 4.5 | 9.8 | 22.40745317 | 114.2227428 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:10:39 | 5 | 7.3 | 22.40574867 | 114.2241242 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:12:05 | 4.7 | 5.3 | 22.40657667 | 114.2224985 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:16:59 | 5.9 | 15.4 | 22.382059 | 114.1955392 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:17:01 | 6.5 | 0.2 | 22.381975 | 114.1954843 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:17:14 | 5.7 | 8.3 | 22.38195483 | 114.1954795 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:18:37 | 5.9 | 6.6 | 22.37798333 | 114.1959807 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:18:38 | 4.5 | 11.1 | 22.37798267 | 114.1959765 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:19:08 | 5.1 | 9.6 | 22.37739833 | 114.195195 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:19:10 | 4.2 | 17.3 | 22.37737917 | 114.1951633 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:20:35 | 5.5 | 9 | 22.37578567 | 114.1927348 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:20:57 | 4.9 | 9 | 22.37550633 | 114.192067 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:22:33 | 5.3 | 7 | 22.37512 | 114.1884655 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:23:09 | 5.3 | 5.6 | 22.37433733 | 114.1870877 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:24:15 | 5.5 | 9.2 | 22.37425367 | 114.1857298 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:25:20 | 4.7 | 7.8 | 22.37213767 | 114.1802143 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:27:23 | 4.9 | 5.4 | 22.36404917 | 114.1718963 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:29:11 | 4.9 | 6.3 | 22.3663045 | 114.1763955 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:30:03 | 6.5 | 10.3 | 22.36714333 | 114.176241 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:30:58 | 4.2 | 10.4 | 22.36936667 | 114.1801212 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:37:01 | 4.4 | 4.4 | 22.34026833 | 114.1793862 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:37:02 | 6.7 | 11.1 | 22.34026367 | 114.1793955 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:37:03 | 5 | 16.2 | 22.34024967 | 114.1794025 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:37:04 | 4.5 | 20.7 | 22.34021883 | 114.1794048 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:37:06 | 7.5 | 28.3 | 22.34011767 | 114.1794058 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:38:06 | 5.3 | 9.2 | 22.3393805 | 114.1793987 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:39:36 | 4.5 | 4.8 | 22.332707 | 114.1788738 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:39:37 | 5.3 | 10.1 | 22.33270333 | 114.1788688 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:40:29 | 6.7 | 7.1 | 22.33052967 | 114.1787497 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:43:05 | 6.1 | 8 | 22.3210895 | 114.1773648 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:43:59 | 5.4 | 5.6 | 22.31786883 | 114.1750045 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:44:42 | 5.8 | 6.5 | 22.31728767 | 114.1745848 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:45:48 | 5.6 | 8.4 | 22.31467933 | 114.172484 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:46:15 | 5.3 | 5.6 | 22.31406733 | 114.17199 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:46:16 | 4.5 | 10.1 | 22.314065 | 114.1719867 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:47:02 | 5.7 | 7.8 | 22.312419 | 114.1713273 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:48:10 | 5.6 | 7.2 | 22.3072025 | 114.1718653 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:49:32 | 4.9 | 7.2 | 22.30626317 | 114.1718498 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:49:33 | 4 | 11.3 | 22.30625683 | 114.171847 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:50:09 | 4.6 | 5 | 22.30478317 | 114.1718255 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:50:10 | 4.2 | 9.3 | 22.30477733 | 114.1718137 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:51:51 | 5.8 | 8.4 | 22.300097 | 114.172047 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:53:07 | 6.3 | 7.8 | 22.296725 | 114.172308 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:53:10 | 7.4 | 19.1 | 22.29666233 | 114.1723042 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:55:24 | 5.1 | 5.1 | 22.297735 | 114.1755882 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:55:25 | 4.4 | 9.5 | 22.29773833 | 114.1755893 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:56:10 | 5.8 | 5.8 | 22.30030617 | 114.1761508 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:56:11 | 4.6 | 10.5 | 22.30031067 | 114.1761525 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:56:12 | 4 | 14.5 | 22.30032633 | 114.1761568 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:56:39 | 4.9 | 21.7 | 22.302875 | 114.1770672 |
| 76129 | | STD | 2018-07-24 | N281 | VD8812 | N281 | KAMYNG | 2018-07-24 02:59:10 | 2018-07-24 03:00:00 | 2018-07-24 03:57:25 | 13.8 | 35.9 | 22.30244517 | 114.1811917 |
| 76129 | | STD | NULL | NULL | VD8812 | NULL | NULL | 2018-07-24 02:59:10 | NULL | 2018-07-24 04:08:47 | 4.1 | 4.4 | 22.30367717 | 114.1817873 |
| 76129 | | STD | NULL | NULL | VD8812 | NULL | NULL | 2018-07-24 02:59:10 | NULL | 2018-07-24 04:08:48 | 4.3 | 8.7 | 22.30368067 | 114.1818032 |
| 76129 | | STD | NULL | NULL | VD8812 | NULL | NULL | 2018-07-24 02:59:10 | NULL | 2018-07-24 04:14:22 | 5 | 7.5 | 22.33374733 | 114.1788242 |
| 76129 | | STD | NULL | NULL | VD8812 | NULL | NULL | 2018-07-24 02:59:10 | NULL | 2018-07-24 04:23:13 | 5.9 | 9.7 | 22.3783845 | 114.2039177 |
| 76129 | | STD | NULL | NULL | VD8812 | NULL | NULL | 2018-07-24 02:59:10 | NULL | 2018-07-24 04:23:44 | 6.2 | 22.5 | 22.3801925 | 114.2064593 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:56:08 | 4.9 | 13.3 | 22.38298633 | 114.2122963 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:56:09 | 4.7 | 18.1 | 22.38298333 | 114.2122833 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:56:10 | 4.9 | 23.1 | 22.38297783 | 114.2122557 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:56:11 | 4.2 | 27.4 | 22.38296917 | 114.212216 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:56:12 | 4 | 31.4 | 22.38295633 | 114.212163 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:56:47 | 5.1 | 13.2 | 22.38303083 | 114.2103625 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:56:48 | 5 | 18.3 | 22.3830335 | 114.2103535 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:56:49 | 5 | 23.3 | 22.3830405 | 114.2103297 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:56:50 | 4 | 27.4 | 22.38305233 | 114.2102925 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:58:44 | 4.5 | 11.8 | 22.38536967 | 114.2071108 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:58:45 | 4.5 | 16.4 | 22.38537683 | 114.2071032 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:58:46 | 5 | 21.4 | 22.3853925 | 114.2070868 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 20:58:47 | 4.1 | 25.6 | 22.38541667 | 114.2070608 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:00:08 | 4.3 | 8.2 | 22.38756617 | 114.2046465 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:00:09 | 4.1 | 12.3 | 22.38757033 | 114.2046422 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:00:10 | 4.4 | 16.8 | 22.3875795 | 114.2046313 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:00:44 | 4.9 | 19.6 | 22.3869685 | 114.2037837 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:00:45 | 4.5 | 24.1 | 22.38694567 | 114.2037613 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:01:45 | 4.3 | 10.5 | 22.3864285 | 114.2032093 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:01:46 | 4.2 | 14.8 | 22.38642133 | 114.2032037 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:01:47 | 4.8 | 19.6 | 22.38640583 | 114.2031903 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:01:48 | 4.1 | 23.8 | 22.38638267 | 114.2031682 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:03:25 | 4.5 | 10 | 22.3818275 | 114.2024955 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:03:26 | 4.5 | 14.5 | 22.38182117 | 114.202501 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:03:27 | 4.9 | 19.5 | 22.3818055 | 114.202514 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:03:28 | 4.3 | 23.8 | 22.38178133 | 114.2025342 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:04:08 | 4.7 | 9.6 | 22.380566 | 114.2034393 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:04:09 | 4.5 | 14.1 | 22.3805605 | 114.2034402 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:04:10 | 5 | 19.1 | 22.38054583 | 114.2034488 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:04:11 | 4.5 | 23.7 | 22.38051983 | 114.2034642 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:04:45 | 4.1 | 13.7 | 22.37980217 | 114.2040302 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:04:46 | 4.5 | 18.3 | 22.379785 | 114.2040383 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:04:47 | 4.8 | 23.1 | 22.37975967 | 114.2040542 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:05:46 | 4 | 11.1 | 22.37915417 | 114.204518 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:05:48 | 4.5 | 19.8 | 22.37912883 | 114.2045408 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:07:10 | 4.5 | 9.3 | 22.378705 | 114.1973155 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:07:11 | 4.4 | 13.7 | 22.37870667 | 114.1973117 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:07:12 | 4.7 | 18.5 | 22.37871233 | 114.1972945 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:07:13 | 4.7 | 23.2 | 22.3787235 | 114.1972653 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:08:13 | 4.8 | 12.6 | 22.37802667 | 114.196093 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:08:14 | 4.8 | 17.4 | 22.37801467 | 114.1960815 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:08:15 | 5.1 | 22.5 | 22.37799467 | 114.1960597 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:08:16 | 4.1 | 26.7 | 22.37796683 | 114.1960275 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:08:50 | 5.4 | 21.5 | 22.37725533 | 114.1950725 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:10:12 | 4.6 | 13 | 22.3758625 | 114.1929175 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:10:13 | 4.9 | 17.9 | 22.37585367 | 114.1928997 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:10:14 | 4.7 | 22.6 | 22.37583917 | 114.1928703 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:10:57 | 4.4 | 10.5 | 22.37582083 | 114.1910995 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:10:58 | 4.3 | 14.9 | 22.37581767 | 114.191086 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:10:59 | 5.1 | 20.1 | 22.37581183 | 114.1910605 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:11:20 | 4 | 12 | 22.375557 | 114.190545 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:11:23 | 4.2 | 24.5 | 22.375533 | 114.190456 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:11:37 | 4.5 | 14 | 22.37587133 | 114.1899175 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:12:32 | 4.5 | 8.8 | 22.37517267 | 114.1885735 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:12:33 | 4.4 | 13.3 | 22.37516883 | 114.1885685 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:12:34 | 4.7 | 18 | 22.37515683 | 114.1885495 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:12:35 | 4.5 | 22.6 | 22.37513867 | 114.1885198 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:13:51 | 4.8 | 12 | 22.374215 | 114.185948 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:13:52 | 4.9 | 16.9 | 22.37421417 | 114.1859273 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:13:53 | 5.1 | 22 | 22.3742155 | 114.1858928 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:14:24 | 4.3 | 9.5 | 22.3733855 | 114.18559 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:14:25 | 4.2 | 13.7 | 22.373372 | 114.1855942 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:14:26 | 4.4 | 18.2 | 22.37334933 | 114.1856012 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:14:27 | 4.6 | 22.9 | 22.37331617 | 114.1856112 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:15:37 | 4.8 | 20.1 | 22.370169 | 114.1856105 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:15:38 | 4 | 24.1 | 22.37020233 | 114.1856317 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:16:09 | 4 | 10.8 | 22.37098133 | 114.1861058 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:16:11 | 4.7 | 19.7 | 22.37099717 | 114.1861227 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:16:12 | 4.2 | 24 | 22.371015 | 114.1861447 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:16:48 | 4.3 | 20.6 | 22.370004 | 114.1878258 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:17:21 | 4.4 | 10.7 | 22.3694925 | 114.1873913 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:17:22 | 4.4 | 15.1 | 22.369488 | 114.1873885 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:17:23 | 5.3 | 20.5 | 22.36947533 | 114.1873807 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:17:24 | 5.2 | 25.7 | 22.36945267 | 114.1873672 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:17:25 | 4.4 | 30.1 | 22.36941967 | 114.1873482 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:20:24 | 4.5 | 9.3 | 22.373196 | 114.1817047 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:20:25 | 4.4 | 13.7 | 22.37319483 | 114.181702 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:20:26 | 4.7 | 18.5 | 22.37318817 | 114.1816908 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:20:27 | 4.8 | 23.3 | 22.37317367 | 114.1816695 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:21:03 | 4 | 25.1 | 22.37211367 | 114.1801052 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:22:14 | 4.5 | 11.2 | 22.36968617 | 114.1802178 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:22:15 | 4.1 | 15.4 | 22.36967317 | 114.1802282 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:23:20 | 4.9 | 9.7 | 22.36882383 | 114.1789943 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:23:21 | 4.6 | 14.4 | 22.36882017 | 114.1789848 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:23:22 | 4.7 | 19.2 | 22.3688135 | 114.1789703 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:23:23 | 4.7 | 23.9 | 22.36880117 | 114.178941 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:23:54 | 4.2 | 10.3 | 22.36851017 | 114.1781968 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:23:55 | 4.1 | 14.4 | 22.36851 | 114.1781952 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:23:56 | 4.4 | 18.9 | 22.36850483 | 114.1781808 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:23:57 | 4.5 | 23.5 | 22.368496 | 114.1781548 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:27:02 | 4 | 10.5 | 22.3740225 | 114.1766703 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:27:05 | 4.5 | 23.4 | 22.3740675 | 114.1766338 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:27:33 | 4.7 | 8.5 | 22.37533683 | 114.175764 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:27:34 | 4.6 | 13.1 | 22.37533883 | 114.1757627 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:27:35 | 4.8 | 18 | 22.37534967 | 114.1757562 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:27:36 | 5 | 23 | 22.37537083 | 114.1757438 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:27:37 | 4 | 27.1 | 22.37540267 | 114.1757252 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:27:38 | 4.2 | 31.3 | 22.375446 | 114.1756997 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:28:14 | 4.3 | 10.5 | 22.377438 | 114.174537 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:28:15 | 4.3 | 14.9 | 22.37744417 | 114.1745332 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | WN.TAU | 2018-07-24 20:45:49 | 2018-07-24 20:55:00 | 2018-07-24 21:28:16 | 4.1 | 19.1 | 22.37745967 | 114.1745237 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:41:29 | 4.2 | 22.7 | 22.37573683 | 114.175652 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:42:23 | 4.6 | 9.3 | 22.37373867 | 114.1771295 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:42:24 | 4.2 | 13.5 | 22.37373417 | 114.1771345 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:42:25 | 4.1 | 17.7 | 22.37371817 | 114.1771453 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:42:26 | 4.6 | 22.4 | 22.37369233 | 114.1771638 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:42:58 | 4.7 | 11.6 | 22.37310283 | 114.177573 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:42:59 | 4.5 | 16.1 | 22.37309517 | 114.1775762 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:43:32 | 4.1 | 14.9 | 22.37173117 | 114.1786212 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:43:33 | 4.7 | 19.7 | 22.37171733 | 114.1786448 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:43:34 | 4.3 | 24.1 | 22.37169733 | 114.1786773 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:44:37 | 4.3 | 11.4 | 22.368687 | 114.1751502 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:44:38 | 4.1 | 15.5 | 22.36867533 | 114.1751402 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:44:40 | 4.5 | 24.6 | 22.36862817 | 114.1750955 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:45:32 | 4.9 | 9.9 | 22.36732317 | 114.1759228 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:45:33 | 4.5 | 14.5 | 22.3673245 | 114.175932 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:45:34 | 4.7 | 19.2 | 22.367329 | 114.1759547 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:45:35 | 4.3 | 23.6 | 22.36733717 | 114.1759895 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:48:09 | 4.5 | 9.7 | 22.36928967 | 114.1798167 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:48:12 | 4.6 | 22.5 | 22.369322 | 114.1798852 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:49:53 | 4.4 | 10 | 22.372617 | 114.1803815 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:49:54 | 4.2 | 14.2 | 22.372617 | 114.1803815 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:49:55 | 4.4 | 18.6 | 22.37262583 | 114.1803957 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:49:56 | 4.6 | 23.2 | 22.37263883 | 114.1804172 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:51:09 | 4.2 | 12.6 | 22.37335583 | 114.1855573 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:51:10 | 4.2 | 16.8 | 22.37334817 | 114.1855595 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:51:11 | 4.7 | 21.6 | 22.37332933 | 114.1855643 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:51:12 | 4 | 25.6 | 22.37329967 | 114.1855717 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:52:16 | 4 | 11.7 | 0 | 0 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:52:18 | 4.8 | 20.7 | 0 | 0 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:52:19 | 4 | 24.7 | 0 | 0 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:52:55 | 4.3 | 11.1 | 22.370878 | 114.1859905 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:52:56 | 4.1 | 15.3 | 22.37088283 | 114.1859937 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:52:57 | 4.5 | 19.9 | 22.37089467 | 114.186006 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:52:58 | 4.3 | 24.2 | 22.3709115 | 114.1860298 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:54:03 | 4 | 23.3 | 22.36961433 | 114.1874723 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:56:14 | 4.2 | 10.8 | 22.374161 | 114.1853448 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:56:15 | 4.2 | 15 | 22.37416733 | 114.1853452 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:56:16 | 4.2 | 19.3 | 22.37418417 | 114.1853462 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:57:17 | 4.3 | 11.6 | 22.3747525 | 114.1876873 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:57:18 | 4.1 | 15.8 | 22.37475717 | 114.1876938 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:57:19 | 4.4 | 20.2 | 22.37476733 | 114.1877113 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:58:15 | 4.9 | 10.3 | 22.37595733 | 114.1894427 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:58:16 | 4.6 | 15 | 22.37596133 | 114.1894472 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:58:17 | 4.6 | 19.7 | 22.375971 | 114.1894575 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:59:11 | 4.4 | 10.2 | 22.37599567 | 114.1915672 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:59:14 | 4.1 | 23.2 | 22.37601067 | 114.1916177 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:59:43 | 4.3 | 11.6 | 22.37592833 | 114.1924452 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 21:59:44 | 4.2 | 15.9 | 22.37592917 | 114.1924477 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:00:23 | 4.5 | 9.2 | 22.37635617 | 114.1936303 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:00:24 | 4.1 | 13.3 | 22.37636417 | 114.1936388 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:00:25 | 4.4 | 17.8 | 22.3763745 | 114.193655 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:00:26 | 4.1 | 21.9 | 22.37639067 | 114.193681 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:00:54 | 4.2 | 10.3 | 22.37729817 | 114.194826 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:00:55 | 4 | 14.3 | 22.3773025 | 114.1948303 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:00:57 | 4.6 | 23.3 | 22.377326 | 114.1948693 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:02:11 | 4.2 | 11.3 | 22.37784683 | 114.1955642 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:02:12 | 4.1 | 15.5 | 22.377853 | 114.19557 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:02:13 | 4.5 | 20 | 22.3778655 | 114.1955857 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:02:14 | 4 | 24 | 22.3778835 | 114.1956113 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:03:01 | 4.8 | 22.8 | 22.37878517 | 114.197734 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:04:05 | 4.2 | 8.5 | 22.378443 | 114.1990273 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:04:06 | 5 | 13.5 | 22.37844667 | 114.1990442 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:04:07 | 4.4 | 18 | 22.37844983 | 114.1990488 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:04:08 | 4.8 | 22.9 | 22.378446 | 114.1990715 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:04:22 | 4.8 | 9.5 | 22.37824933 | 114.1997438 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:04:23 | 4.4 | 13.9 | 22.37825217 | 114.1997512 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:04:24 | 4.6 | 18.6 | 22.37824667 | 114.1997637 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:04:25 | 4.6 | 23.2 | 22.378237 | 114.1997885 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:05:52 | 4.5 | 10.8 | 22.38116917 | 114.2027867 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:05:53 | 4.4 | 15.2 | 22.38117033 | 114.2027835 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:05:54 | 4.5 | 19.8 | 22.38117967 | 114.2027698 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:05:55 | 4.5 | 24.3 | 22.38119767 | 114.2027472 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:07:15 | 4.6 | 9.4 | 22.38478183 | 114.202002 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:07:16 | 4.1 | 13.5 | 22.3847845 | 114.2020003 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:07:18 | 4.7 | 22.6 | 22.38481667 | 114.2019995 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:08:29 | 4.4 | 9.1 | 22.38662867 | 114.2032002 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:08:31 | 4.2 | 17.4 | 22.38663767 | 114.2032133 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:08:32 | 4 | 21.5 | 22.3866535 | 114.2032327 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:08:33 | 4.1 | 25.6 | 22.38667533 | 114.2032612 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:09:01 | 4.1 | 10.5 | 22.38769783 | 114.2043608 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:09:54 | 4.7 | 9.8 | 22.38707717 | 114.2054685 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:09:55 | 4.5 | 14.4 | 22.38708217 | 114.2054577 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:09:56 | 4.5 | 18.9 | 22.38707267 | 114.2054638 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:09:57 | 4.6 | 23.6 | 22.38705167 | 114.2054837 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:11:12 | 4.3 | 11.2 | 22.385903 | 114.2066642 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:11:13 | 4.1 | 15.4 | 22.3858945 | 114.206673 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:11:14 | 4.3 | 19.8 | 22.38587883 | 114.20669 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:11:15 | 4.1 | 23.9 | 22.3858555 | 114.2067153 |
| 76129 | | STD | 2018-07-24 | N281 | TX5380 | 82K | MEILAM | 2018-07-24 21:38:38 | 2018-07-24 21:40:00 | 2018-07-24 22:12:42 | 4.8 | 20 | 22.38334433 | 114.2139758 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:23:18 | 5.5 | 9.5 | 22.38313733 | 114.2143908 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:23:19 | 4.9 | 14.5 | 22.38314067 | 114.2143795 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:23:20 | 4.6 | 19.1 | 22.38314417 | 114.214366 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:23:21 | 4.5 | 23.7 | 22.38315417 | 114.2143382 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:23:22 | 4 | 27.7 | 22.383167 | 114.2142982 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:25:24 | 5 | 9.4 | 22.3831005 | 114.2102213 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:25:25 | 4.6 | 14 | 22.3831035 | 114.2102147 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:25:26 | 4 | 18 | 22.38310883 | 114.2101993 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:32:22 | 4.6 | 8.7 | 22.421365 | 114.2324018 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:32:23 | 4.3 | 13 | 22.42137083 | 114.2324055 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:32:24 | 4.2 | 17.3 | 22.42138617 | 114.2324103 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-24 21:38:38 | NULL | 2018-07-24 22:32:25 | 4.4 | 21.7 | 22.42141417 | 114.2324182 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:50:17 | 4.6 | 8.2 | 22.4237765 | 114.2376075 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:50:18 | 4.1 | 12.3 | 22.42378 | 114.23761 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:51:13 | 5.9 | 11.5 | 22.424938 | 114.2400252 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:51:14 | 5 | 16.6 | 22.424945 | 114.2400217 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:51:15 | 4.9 | 21.5 | 22.42496167 | 114.240019 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:51:16 | 4.2 | 25.8 | 22.42499283 | 114.2400153 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:51:17 | 4.4 | 30.2 | 22.42503767 | 114.2400082 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:51:50 | 4.4 | 10.6 | 22.42623733 | 114.2392243 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:53:34 | 5.1 | 10.6 | 22.4252765 | 114.2343685 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:53:35 | 4.7 | 15.3 | 22.42527583 | 114.2343635 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:53:36 | 4.8 | 20.2 | 22.42527233 | 114.2343478 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:55:37 | 4.8 | 13.2 | 22.42246517 | 114.2279443 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-24 23:56:55 | 4 | 21.1 | 22.4180925 | 114.2306752 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:03:48 | 4.8 | 11.3 | 22.39288767 | 114.207677 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:03:49 | 4.6 | 15.9 | 22.392887 | 114.2076745 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:03:50 | 4.7 | 20.7 | 22.39287 | 114.2076602 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:03:51 | 4 | 24.7 | 22.39284467 | 114.2076337 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:04:24 | 4.8 | 10.3 | 22.39138583 | 114.2062688 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:04:25 | 4.5 | 14.9 | 22.39138483 | 114.20627 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:04:26 | 4.6 | 19.6 | 22.39137417 | 114.2062587 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:04:27 | 4.7 | 24.3 | 22.39135567 | 114.2062353 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:07:31 | 4.9 | 8.7 | 22.3792135 | 114.196471 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:07:32 | 4.5 | 13.3 | 22.379212 | 114.1964738 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:07:33 | 4.7 | 18 | 22.37920633 | 114.1964842 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:08:12 | 5 | 11.2 | 22.3780615 | 114.1960382 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:08:13 | 5 | 16.2 | 22.37806517 | 114.1960388 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:08:14 | 5.4 | 21.6 | 22.37805583 | 114.196025 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:08:15 | 4.5 | 26.2 | 22.37803633 | 114.1959993 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:08:16 | 4.2 | 30.5 | 22.37800867 | 114.1959625 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:08:36 | 4.8 | 9 | 22.3773965 | 114.195189 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:08:37 | 4.5 | 13.6 | 22.3773955 | 114.195188 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:08:38 | 4.7 | 18.3 | 22.37738983 | 114.1951788 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:08:39 | 4.9 | 23.3 | 22.37737733 | 114.1951578 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:10:09 | 4.7 | 11.4 | 22.37579267 | 114.1927523 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:10:10 | 4.5 | 15.9 | 22.3757905 | 114.1927468 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:10:11 | 4.7 | 20.7 | 22.375783 | 114.1927295 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:10:38 | 4.7 | 20.9 | 22.37551 | 114.1920543 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:10:39 | 4.2 | 25.1 | 22.37549917 | 114.1920232 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:11:41 | 5.3 | 10 | 22.375939 | 114.189887 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:11:42 | 4.9 | 15 | 22.37593367 | 114.1898932 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:12:23 | 4.6 | 9.4 | 22.37513117 | 114.1884742 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:12:24 | 4.3 | 13.7 | 22.37512233 | 114.1884608 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:12:26 | 5.6 | 23 | 22.37509883 | 114.1884197 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:13:56 | 4.9 | 9 | 22.372122 | 114.1801118 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:13:57 | 4.7 | 13.7 | 22.37212233 | 114.1801102 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:13:58 | 4.8 | 18.6 | 22.37211933 | 114.1801025 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:13:59 | 4.9 | 23.5 | 22.37210933 | 114.1800817 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:15:35 | 4.8 | 10.2 | 22.36798667 | 114.1745818 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:15:36 | 4.5 | 14.7 | 22.36799183 | 114.1745833 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:15:37 | 4.7 | 19.5 | 22.36798217 | 114.1745783 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:15:38 | 4.7 | 24.2 | 22.36795883 | 114.1745663 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:16:34 | 4.3 | 12.7 | 22.3641745 | 114.1719587 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:16:35 | 4.4 | 17.2 | 22.36417133 | 114.1719533 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:16:36 | 4.7 | 21.9 | 22.36415933 | 114.1719373 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:19:26 | 4.8 | 12.1 | 22.36700467 | 114.1761915 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:19:27 | 4.6 | 16.7 | 22.36701667 | 114.1761942 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:19:28 | 5 | 21.7 | 22.367039 | 114.1761915 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:20:25 | 4.9 | 21.6 | 22.36933567 | 114.1800622 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:26:08 | 7.4 | 11.6 | 22.34022333 | 114.1794165 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:26:09 | 5.9 | 17.5 | 22.34022217 | 114.1794172 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:26:10 | 4.6 | 22.2 | 22.340211 | 114.1794168 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:27:12 | 5.1 | 12.8 | 22.33937833 | 114.1793672 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:27:13 | 4.4 | 17.2 | 22.33937217 | 114.1793673 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:27:14 | 4.5 | 21.7 | 22.33935233 | 114.1793682 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:28:27 | 4.8 | 10.3 | 22.334258 | 114.1789562 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:28:28 | 4.3 | 14.7 | 22.33425133 | 114.178955 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:28:29 | 4.6 | 19.4 | 22.33423567 | 114.178953 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:29:10 | 4.7 | 9.7 | 22.33272717 | 114.1788478 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:29:11 | 4.3 | 14 | 22.33273183 | 114.1788505 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:29:12 | 4.4 | 18.5 | 22.33272233 | 114.1788513 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:29:13 | 4.6 | 23.1 | 22.33269817 | 114.1788525 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:29:47 | 4.4 | 11.6 | 22.33052983 | 114.1787153 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:29:48 | 4.2 | 15.8 | 22.33052267 | 114.1787155 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:29:49 | 4.2 | 20.1 | 22.33050483 | 114.1787152 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:29:50 | 4.5 | 24.6 | 22.33047517 | 114.1787137 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:31:21 | 4.5 | 8.2 | 22.321803 | 114.1781862 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:31:22 | 4.1 | 12.4 | 22.32179783 | 114.1781873 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:31:23 | 4.2 | 16.7 | 22.321787 | 114.1781907 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:31:24 | 4 | 20.7 | 22.32176483 | 114.1781985 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:31:54 | 4.4 | 8.8 | 22.32140717 | 114.1782447 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:31:56 | 4.5 | 17.5 | 22.32139633 | 114.1782332 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:31:57 | 5 | 22.5 | 22.32138033 | 114.178214 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:33:13 | 4.5 | 10.8 | 22.32080817 | 114.177342 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:33:14 | 4.2 | 15.1 | 22.3208035 | 114.1773385 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:33:15 | 4.4 | 19.6 | 22.32078967 | 114.177327 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:33:16 | 4 | 23.6 | 22.3207665 | 114.1773085 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:33:43 | 4.7 | 10.3 | 22.31987383 | 114.1766467 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:33:44 | 4.4 | 14.7 | 22.31987083 | 114.1766437 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:33:45 | 4.5 | 19.2 | 22.3198585 | 114.1766335 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:33:46 | 4.5 | 23.8 | 22.31983783 | 114.1766142 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:33:47 | 4 | 27.8 | 22.319809 | 114.1765862 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:35:03 | 4.8 | 12 | 22.31863 | 114.1756943 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:35:04 | 4.5 | 16.5 | 22.31862633 | 114.1756885 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:35:05 | 4.5 | 21.1 | 22.3186105 | 114.1756765 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:35:06 | 4.1 | 25.2 | 22.31858367 | 114.1756578 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:36:33 | 4.9 | 11.6 | 22.31661217 | 114.1741842 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:36:34 | 4.7 | 16.4 | 22.316607 | 114.1741805 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:36:35 | 4.5 | 20.9 | 22.31658783 | 114.1741752 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:36:36 | 4 | 24.9 | 22.316562 | 114.1741572 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:36:39 | 4 | 35.9 | 22.31642417 | 114.1740662 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:37:44 | 4.6 | 12.2 | 22.3139625 | 114.1721605 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:37:45 | 4.5 | 16.7 | 22.31395417 | 114.1721532 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:37:46 | 4.6 | 21.3 | 22.31393683 | 114.1721412 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:38:33 | 4.9 | 12 | 22.3119325 | 114.170955 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:38:34 | 4.8 | 16.8 | 22.31192667 | 114.1709498 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:38:35 | 5 | 21.8 | 22.31190767 | 114.1709475 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:40:01 | 4.3 | 10.4 | 22.30592067 | 114.171502 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:40:02 | 4.3 | 14.8 | 22.30592083 | 114.1715122 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:40:03 | 4.6 | 19.4 | 22.30590633 | 114.1715187 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:40:04 | 4.5 | 24 | 22.30588 | 114.1715272 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:40:38 | 4.3 | 10.6 | 22.3035425 | 114.1715947 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:40:39 | 4.3 | 15 | 22.303533 | 114.171589 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:40:40 | 4.8 | 19.8 | 22.30351233 | 114.1715835 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:40:41 | 4.3 | 24.2 | 22.30348117 | 114.1715797 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:41:57 | 5.2 | 12.6 | 22.29988483 | 114.1719367 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:41:58 | 5 | 17.6 | 22.2998795 | 114.1719385 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:41:59 | 4.8 | 22.5 | 22.299861 | 114.1719363 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:42:55 | 4.9 | 13.4 | 22.29819733 | 114.1720608 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:42:56 | 4.7 | 18.2 | 22.29819167 | 114.1720642 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:42:57 | 4.7 | 23 | 22.2981745 | 114.1720675 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:44:26 | 4.9 | 9.3 | 22.295081 | 114.1722838 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:44:27 | 4.4 | 13.7 | 22.29507267 | 114.172282 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:47:26 | 4 | 11.4 | 22.29988117 | 114.175938 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-24 23:48:02 | 2018-07-24 23:50:00 | 2018-07-25 00:47:29 | 4.3 | 24 | 22.2999335 | 114.175968 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:21:19 | 5.1 | 10.3 | 22.30246017 | 114.1783723 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:21:20 | 4.9 | 15.3 | 22.30246367 | 114.17836 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:21:21 | 4.6 | 19.9 | 22.302468 | 114.1783447 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:21:22 | 4.3 | 24.3 | 22.30247683 | 114.1783178 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:22:23 | 4.5 | 9.4 | 22.3007355 | 114.1763742 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:22:24 | 4.1 | 13.5 | 22.30073167 | 114.1763718 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:22:26 | 4.5 | 22.2 | 22.30069583 | 114.1763577 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:23:08 | 4.9 | 8.7 | 22.29951917 | 114.1759828 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:23:09 | 4.3 | 13 | 22.29952033 | 114.1759817 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:23:10 | 4.4 | 17.5 | 22.29951033 | 114.17598 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:23:11 | 4.9 | 22.4 | 22.29948833 | 114.1759747 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:23:37 | 4.2 | 11.4 | 22.2985875 | 114.1758145 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:23:38 | 4.2 | 15.7 | 22.29857883 | 114.1758118 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:23:40 | 4.6 | 24.7 | 22.29853067 | 114.1758008 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:24:56 | 4.6 | 9.1 | 22.29557483 | 114.1752585 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:24:57 | 4.3 | 13.4 | 22.29556917 | 114.175259 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:24:58 | 4.5 | 18 | 22.29555683 | 114.1752563 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:24:59 | 4.5 | 22.5 | 22.29553083 | 114.1752578 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:25:29 | 4.3 | 12 | 22.2947355 | 114.1740432 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:25:31 | 4.7 | 21.1 | 22.29473133 | 114.1740125 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:26:47 | 4.7 | 10.5 | 22.29468417 | 114.1724732 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:26:48 | 4.2 | 14.8 | 22.29468367 | 114.1724818 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:27:20 | 4.2 | 14.5 | 22.29537 | 114.172346 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:27:21 | 4.4 | 19 | 22.29538683 | 114.172348 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:27:22 | 4.4 | 23.4 | 22.29541433 | 114.1723502 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:27:47 | 4.6 | 9.9 | 22.29633433 | 114.1723198 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:27:48 | 4.4 | 14.3 | 22.29634017 | 114.1723405 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:27:49 | 4.6 | 19 | 22.29635433 | 114.1723413 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:27:50 | 4.7 | 23.7 | 22.296382 | 114.1723455 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:28:23 | 4.4 | 18 | 22.297843 | 114.172303 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:28:24 | 4.4 | 22.4 | 22.29786717 | 114.1723032 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:29:20 | 4.5 | 18.9 | 22.29947183 | 114.1721102 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:29:21 | 4.2 | 23.2 | 22.29949717 | 114.172104 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:29:46 | 4.5 | 9.7 | 22.30040567 | 114.1720162 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:29:47 | 4.5 | 14.3 | 22.3004085 | 114.172016 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:29:48 | 4.9 | 19.2 | 22.3004205 | 114.1720132 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:29:49 | 4.4 | 23.7 | 22.30044417 | 114.1720108 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:30:21 | 4.5 | 19 | 22.30186 | 114.1718765 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:30:22 | 4.4 | 23.4 | 22.30188667 | 114.1718742 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:30:55 | 4.6 | 12.7 | 22.30425967 | 114.1716995 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:30:56 | 4 | 16.8 | 22.30426933 | 114.1716997 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:31:43 | 4.8 | 8.7 | 22.30480083 | 114.1717588 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:31:44 | 4.5 | 13.3 | 22.304806 | 114.1717613 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:31:45 | 4.6 | 17.9 | 22.30481683 | 114.1717627 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:31:46 | 4.6 | 22.6 | 22.3048395 | 114.1717657 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:32:28 | 4.4 | 11.1 | 22.3068965 | 114.1716237 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:32:29 | 4.2 | 15.4 | 22.30690217 | 114.1716233 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:32:31 | 4.3 | 24.1 | 22.306948 | 114.171618 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:33:20 | 4.5 | 9.4 | 22.30810167 | 114.171469 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:33:21 | 4.4 | 13.8 | 22.30810883 | 114.1714718 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:33:22 | 4.4 | 18.2 | 22.30812183 | 114.1714727 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:33:23 | 4.6 | 22.9 | 22.30814633 | 114.1714728 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:34:07 | 4.9 | 8.3 | 22.310082 | 114.1711955 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:34:08 | 4.6 | 13 | 22.31008633 | 114.1711927 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:34:09 | 4.8 | 17.8 | 22.31009567 | 114.1711893 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:34:10 | 4.8 | 22.7 | 22.31011767 | 114.1711832 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:34:37 | 4.6 | 22.1 | 22.3113735 | 114.1709688 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:35:22 | 4.2 | 11.2 | 22.3141725 | 114.1704725 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:35:23 | 4.3 | 15.6 | 22.314179 | 114.1704775 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:35:24 | 4.6 | 20.2 | 22.314197 | 114.1704803 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:35:25 | 4 | 24.3 | 22.31422533 | 114.1704782 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:36:01 | 4.2 | 14.9 | 22.3159595 | 114.1701483 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:36:02 | 4.5 | 19.5 | 22.315976 | 114.1701443 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:36:03 | 4.7 | 24.2 | 22.31600433 | 114.1701425 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:38:37 | 4.1 | 11.2 | 22.31902567 | 114.1695875 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:41:19 | 4.2 | 11.7 | 22.32101117 | 114.1702258 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:41:20 | 4.2 | 16 | 22.32101717 | 114.1702318 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:41:21 | 4.9 | 20.9 | 22.32102183 | 114.17025 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:42:49 | 4.1 | 13 | 22.320152 | 114.1736417 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:42:51 | 4.1 | 21.5 | 22.3201605 | 114.1736803 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:46:26 | 4.1 | 12.1 | 22.33382283 | 114.1788005 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:53:02 | 5.6 | 13 | 22.3662615 | 114.1806178 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:53:03 | 5.2 | 18.2 | 22.36627433 | 114.1806213 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:53:04 | 5.2 | 23.5 | 22.36629817 | 114.1806277 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:53:05 | 4.5 | 28 | 22.366336 | 114.1806365 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:53:06 | 4.6 | 32.7 | 22.36638783 | 114.1806435 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:53:07 | 4 | 36.7 | 22.366452 | 114.180652 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:53:08 | 4.3 | 41.1 | 22.36652767 | 114.1806633 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 01:58:24 | 4.7 | 21.9 | 22.36288083 | 114.1724252 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:01:29 | 4.3 | 21.7 | 22.36753567 | 114.1743232 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:02:01 | 4.2 | 15.3 | 22.3688135 | 114.1750463 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:02:02 | 4.7 | 20.1 | 22.3688265 | 114.1750592 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:02:03 | 4.4 | 24.5 | 22.36884633 | 114.1750813 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:03:44 | 4 | 10.4 | 22.37264033 | 114.180423 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:03:47 | 4.9 | 23.3 | 22.37266817 | 114.1804657 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:04:25 | 4.3 | 11 | 22.37313917 | 114.1812405 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:04:26 | 4.2 | 15.2 | 22.3731425 | 114.1812455 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:04:27 | 4.6 | 19.8 | 22.37315233 | 114.1812602 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:04:28 | 4.1 | 24 | 22.3731695 | 114.1812843 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:05:16 | 4.5 | 20.2 | 22.37463433 | 114.1842125 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:05:17 | 4.1 | 24.3 | 22.374632 | 114.1842442 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:06:27 | 4.4 | 23.2 | 22.374472 | 114.1864327 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:06:49 | 4.1 | 12.3 | 22.37485283 | 114.1877392 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:06:51 | 4.4 | 21 | 22.37487067 | 114.1877643 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:07:53 | 4 | 12 | 22.37592517 | 114.1894127 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:07:55 | 4.5 | 20.8 | 22.37594717 | 114.1894352 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:08:51 | 4.2 | 12.2 | 22.37607417 | 114.1914265 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:08:52 | 4.2 | 16.4 | 22.37607833 | 114.1914347 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:08:53 | 4.5 | 20.9 | 22.37608683 | 114.1914548 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:10:10 | 4.2 | 8.9 | 22.37592783 | 114.1924695 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:10:45 | 4.5 | 11.5 | 22.37651717 | 114.1937908 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:10:46 | 4.7 | 16.2 | 22.376522 | 114.193796 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:10:47 | 5 | 21.3 | 22.3765335 | 114.1938112 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:11:22 | 4.2 | 13.1 | 22.37760333 | 114.1952247 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:11:23 | 4.2 | 17.3 | 22.377609 | 114.1952353 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:11:24 | 4.4 | 21.8 | 22.37762067 | 114.1952558 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:12:31 | 4.2 | 9.2 | 22.380579 | 114.1945573 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:12:32 | 4 | 13.3 | 22.38058267 | 114.1945502 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:12:34 | 4.4 | 22.1 | 22.3806085 | 114.1945215 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:13:33 | 4.7 | 21.8 | 22.38252983 | 114.1956733 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:14:21 | 4.1 | 12 | 22.3850025 | 114.1980615 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:14:22 | 4.5 | 16.6 | 22.38500717 | 114.1980692 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:14:23 | 4.9 | 21.5 | 22.38501867 | 114.1980872 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:15:09 | 4.2 | 12.5 | 22.38683767 | 114.1999112 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:15:10 | 4.3 | 16.8 | 22.38684333 | 114.1999185 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:15:11 | 4.6 | 21.5 | 22.38685783 | 114.1999345 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:16:42 | 4.3 | 9.5 | 22.38917483 | 114.2025883 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:16:43 | 4.2 | 13.7 | 22.38917733 | 114.2025975 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:16:44 | 4.3 | 18.1 | 22.389182 | 114.2026122 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:16:45 | 4.6 | 22.7 | 22.38918933 | 114.2026378 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:17:13 | 4 | 22.6 | 22.3894405 | 114.2034683 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:18:34 | 4.4 | 9 | 22.39072017 | 114.2054237 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:18:35 | 4 | 13 | 22.3907335 | 114.2054377 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:18:36 | 4.2 | 17.3 | 22.39074667 | 114.205449 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:19:09 | 4.4 | 11.5 | 22.39173883 | 114.2063732 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:19:10 | 4 | 15.5 | 22.3917455 | 114.2063802 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:19:12 | 4.1 | 24.2 | 22.39177967 | 114.2064197 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:19:51 | 4.6 | 10.1 | 22.39268567 | 114.2073647 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:19:52 | 4.3 | 14.4 | 22.39268983 | 114.207368 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:19:53 | 4.7 | 19.2 | 22.39269967 | 114.2073758 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:19:54 | 4.6 | 23.9 | 22.39271917 | 114.2073935 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:23:01 | 4.7 | 13.4 | 22.40618717 | 114.2219248 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:23:02 | 4.7 | 18.1 | 22.406194 | 114.2219292 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:24:24 | 4.5 | 11.9 | 22.40642033 | 114.2220778 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:24:25 | 4.1 | 16 | 22.40642983 | 114.2220833 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:25:19 | 4.2 | 14.8 | 22.40540917 | 114.2240253 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:25:20 | 4 | 18.9 | 22.40539883 | 114.224011 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:26:28 | 4.6 | 11.9 | 22.40634333 | 114.2224585 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:26:29 | 4.5 | 16.5 | 22.406346 | 114.2224565 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:29:05 | 5.3 | 10.4 | 22.41798817 | 114.2304725 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:29:06 | 4.2 | 14.6 | 22.41799167 | 114.2304652 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:29:07 | 5.1 | 19.7 | 22.418 | 114.2304505 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:29:08 | 4.6 | 24.4 | 22.41801567 | 114.2304233 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:29:09 | 4.2 | 28.6 | 22.41803883 | 114.2303875 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:30:06 | 4.4 | 12.9 | 22.42180583 | 114.2285602 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:30:07 | 4.5 | 17.4 | 22.42181267 | 114.2285525 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:30:08 | 4.9 | 22.3 | 22.42182817 | 114.2285357 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:31:33 | 4.3 | 21.7 | 22.4221975 | 114.2279325 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:32:11 | 4.4 | 11.2 | 22.4234885 | 114.228247 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:32:12 | 4.4 | 15.6 | 22.4234945 | 114.2282527 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:32:13 | 4.8 | 20.5 | 22.42350983 | 114.2282643 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:32:14 | 4.2 | 24.7 | 22.42352983 | 114.2282878 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:33:39 | 4.7 | 11.3 | 22.42425667 | 114.2293427 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:33:40 | 4.4 | 15.7 | 22.42425917 | 114.2293473 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:33:41 | 4.3 | 20.1 | 22.42426817 | 114.2293637 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:33:42 | 4.4 | 24.5 | 22.42428283 | 114.2293913 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:34:19 | 4.4 | 11 | 22.42505833 | 114.2317578 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:34:20 | 4.4 | 15.5 | 22.42506017 | 114.2317642 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:34:21 | 4.6 | 20.1 | 22.42506233 | 114.2317833 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:34:22 | 4.6 | 24.8 | 22.425068 | 114.2318135 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:35:41 | 4.6 | 21 | 22.425933 | 114.2365235 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:37:09 | 4.3 | 9.3 | 22.4265735 | 114.2389315 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:37:10 | 4.2 | 13.5 | 22.42657717 | 114.2389347 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | HH.STN | 2018-07-25 01:19:03 | 2018-07-25 01:20:00 | 2018-07-25 02:37:11 | 4 | 17.6 | 22.4265855 | 114.2389463 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:02:27 | 5.7 | 13.3 | 22.4252085 | 114.2399548 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:02:28 | 5.2 | 18.6 | 22.42520933 | 114.2399535 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:02:29 | 4.5 | 23.2 | 22.4252285 | 114.239948 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:02:48 | 5.7 | 9 | 22.42600983 | 114.2394742 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:02:49 | 5 | 14.1 | 22.42601133 | 114.2394715 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:02:50 | 4.7 | 18.9 | 22.4260185 | 114.2394647 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:04:02 | 4.6 | 12.1 | 22.4262525 | 114.2392053 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:04:03 | 4 | 16.1 | 22.42625617 | 114.2391972 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:04:04 | 4.4 | 20.5 | 22.42626033 | 114.2391743 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:05:28 | 4.8 | 8.8 | 22.4253485 | 114.2343257 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:05:29 | 4.4 | 13.3 | 22.425351 | 114.2343273 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:05:31 | 4.3 | 21.9 | 22.42534183 | 114.2342905 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:07:35 | 4.6 | 11.5 | 22.42252083 | 114.227918 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:08:12 | 4.3 | 10.6 | 22.42021933 | 114.2295627 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:08:13 | 4.1 | 14.8 | 22.42021417 | 114.2295622 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:08:14 | 4.6 | 19.5 | 22.4201985 | 114.2295577 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:08:15 | 4.3 | 23.8 | 22.42017217 | 114.2295503 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:11:41 | 4.6 | 8.7 | 22.40535233 | 114.2239208 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:11:42 | 4.2 | 12.9 | 22.40535267 | 114.223917 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:16:39 | 5.2 | 9.3 | 22.39287383 | 114.207723 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:16:40 | 4.7 | 14 | 22.39287567 | 114.2077233 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:16:41 | 4.7 | 18.7 | 22.39286933 | 114.2077162 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:16:42 | 4.6 | 23.4 | 22.3928525 | 114.2076998 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:17:31 | 4.3 | 14.1 | 22.39096167 | 114.2058553 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:17:32 | 4.6 | 18.8 | 22.390951 | 114.2058473 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:17:33 | 4.8 | 23.7 | 22.39093133 | 114.2058307 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:18:22 | 4.3 | 13.8 | 22.38852583 | 114.2018297 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:18:23 | 5 | 18.8 | 22.38851883 | 114.2018213 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:18:24 | 4.7 | 23.6 | 22.38850533 | 114.2018022 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:18:54 | 4.5 | 10.3 | 22.387255 | 114.2005492 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:18:55 | 4.5 | 14.8 | 22.38724933 | 114.2005458 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:18:56 | 4.9 | 19.8 | 22.38723917 | 114.200536 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:18:57 | 4.4 | 24.3 | 22.38721917 | 114.2005182 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:20:16 | 4.3 | 10.4 | 22.38190567 | 114.1954312 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:20:17 | 4.4 | 14.8 | 22.38190533 | 114.1954307 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:20:18 | 4.7 | 19.6 | 22.38189433 | 114.1954207 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:20:19 | 4.2 | 23.8 | 22.381875 | 114.1954015 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:21:38 | 5.1 | 8.4 | 22.3779465 | 114.195883 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:21:39 | 4.6 | 13 | 22.377951 | 114.1958905 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:21:40 | 4.6 | 17.7 | 22.37794667 | 114.1958855 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:21:41 | 4.9 | 22.6 | 22.377933 | 114.1958675 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:22:08 | 4.4 | 12.9 | 22.3774225 | 114.1952005 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:22:09 | 4.6 | 17.5 | 22.37741417 | 114.1951887 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:22:10 | 4.6 | 22.2 | 22.37739967 | 114.1951663 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:23:40 | 4.2 | 24.6 | 22.37508767 | 114.1884132 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:24:11 | 4.4 | 10.5 | 22.37435933 | 114.187111 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:24:12 | 4.4 | 14.9 | 22.37435783 | 114.1871033 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:24:13 | 4.7 | 19.7 | 22.374353 | 114.1870855 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:24:14 | 4.8 | 24.5 | 22.37434517 | 114.1870563 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:25:16 | 4.8 | 9.8 | 22.37426133 | 114.1857698 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:25:17 | 4.5 | 14.3 | 22.3742565 | 114.1857765 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:25:18 | 4.6 | 19 | 22.3742565 | 114.1857625 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:25:19 | 4.8 | 23.8 | 22.37425967 | 114.1857335 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:26:18 | 4.7 | 10.6 | 22.37215433 | 114.1801642 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:26:19 | 4.5 | 15.2 | 22.37215117 | 114.180157 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:26:20 | 5 | 20.2 | 22.37214283 | 114.1801408 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:26:21 | 4.5 | 24.8 | 22.37212917 | 114.1801133 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:28:15 | 5 | 8.7 | 22.36790433 | 114.174557 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:28:16 | 4.3 | 13.1 | 22.36791267 | 114.1745615 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:28:17 | 4.6 | 17.7 | 22.36790433 | 114.1745567 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:28:18 | 4.8 | 22.6 | 22.367883 | 114.1745453 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:31:22 | 5 | 11.2 | 22.3671585 | 114.1762303 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:31:23 | 4.8 | 16 | 22.3671675 | 114.176225 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:32:26 | 4.9 | 9.7 | 22.368724 | 114.1784965 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:32:27 | 4.5 | 14.2 | 22.36872133 | 114.1784935 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:32:28 | 4.6 | 18.9 | 22.36872583 | 114.1785057 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:32:29 | 4.8 | 23.8 | 22.368737 | 114.1785322 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:32:47 | 4.5 | 11.5 | 22.368999 | 114.17907 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:32:48 | 4.5 | 16 | 22.369001 | 114.1790763 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:32:49 | 4.9 | 21 | 22.36900733 | 114.179095 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:32:50 | 4 | 25 | 22.36901617 | 114.1791265 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:39:21 | 5.6 | 10 | 22.3393525 | 114.1792888 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:39:22 | 4.7 | 14.7 | 22.33934917 | 114.1792892 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:39:23 | 4.5 | 19.2 | 22.339336 | 114.1792887 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:39:24 | 4.6 | 23.8 | 22.339309 | 114.1792875 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:40:33 | 4.2 | 11.7 | 22.33303033 | 114.1788775 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:40:34 | 4.1 | 15.9 | 22.33302167 | 114.178878 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:40:35 | 4 | 20 | 22.33300183 | 114.178878 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:40:36 | 4 | 24 | 22.33297133 | 114.178877 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:41:24 | 4.5 | 9.2 | 22.33079283 | 114.1787548 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:41:25 | 4 | 13.2 | 22.33079017 | 114.1787527 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:43:05 | 4.2 | 21.3 | 22.32171367 | 114.1782098 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:43:33 | 5.1 | 9.3 | 22.32136717 | 114.1782545 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:43:34 | 4.7 | 14.1 | 22.32136633 | 114.1782537 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:43:35 | 5 | 19.1 | 22.3213585 | 114.1782458 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:43:36 | 5.3 | 24.4 | 22.32134167 | 114.1782273 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:43:37 | 4.1 | 28.5 | 22.32131833 | 114.1781977 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:44:52 | 4.2 | 11.7 | 22.32078883 | 114.1773278 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:44:53 | 4.2 | 15.9 | 22.32078767 | 114.1773253 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:44:54 | 4.4 | 20.4 | 22.32077267 | 114.1773118 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:45:47 | 4.4 | 12.4 | 22.31769567 | 114.1749697 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:45:48 | 4.3 | 16.8 | 22.3176885 | 114.1749648 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:45:49 | 4.7 | 21.5 | 22.31767233 | 114.1749522 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:46:33 | 4.6 | 11.5 | 22.31661117 | 114.1741487 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:46:34 | 4.5 | 16 | 22.316604 | 114.1741487 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:46:35 | 4.5 | 20.6 | 22.31658733 | 114.174141 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:46:36 | 4 | 24.7 | 22.31655933 | 114.1741283 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:46:39 | 4.1 | 35.7 | 22.316421 | 114.1740462 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:47:16 | 4.3 | 11.7 | 22.314377 | 114.1724943 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:47:17 | 4.1 | 15.9 | 22.314371 | 114.17249 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:47:18 | 4 | 19.9 | 22.31435567 | 114.1724788 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:47:42 | 4.3 | 11.4 | 22.31397083 | 114.1721778 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:47:43 | 4.3 | 15.7 | 22.3139655 | 114.172174 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:47:45 | 4.1 | 24.6 | 22.3139275 | 114.172146 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:48:31 | 4.2 | 12.9 | 22.311883 | 114.1708495 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:48:32 | 4.3 | 17.2 | 22.31187283 | 114.1708522 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:48:33 | 4.7 | 22 | 22.311851 | 114.170857 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:48:34 | 4 | 26 | 22.311819 | 114.1708633 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:50:52 | 4.2 | 10.3 | 22.30600567 | 114.171622 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:50:53 | 4.2 | 14.6 | 22.3060015 | 114.1716217 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:50:54 | 4.2 | 18.9 | 22.3059865 | 114.1716247 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:52:02 | 4.4 | 9.5 | 22.30109833 | 114.1719823 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:53:07 | 5.1 | 13.7 | 22.29968 | 114.1720635 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:53:08 | 5 | 18.7 | 22.29966983 | 114.172064 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:53:09 | 4.6 | 23.4 | 22.29964567 | 114.1720663 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:53:10 | 4.1 | 27.5 | 22.2996095 | 114.172068 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:54:54 | 4.3 | 11.5 | 22.29495267 | 114.1724317 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:55:36 | 4.1 | 8.2 | 22.295161 | 114.1746832 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:55:39 | 4.7 | 21.1 | 22.29517667 | 114.174726 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:56:22 | 4.2 | 11.1 | 22.29702517 | 114.1754403 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:56:23 | 4.2 | 15.4 | 22.29703383 | 114.1754443 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:56:24 | 4.3 | 19.7 | 22.29705517 | 114.1754495 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:56:25 | 4.5 | 24.3 | 22.29708767 | 114.1754522 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:57:20 | 4.8 | 8.3 | 22.3002665 | 114.1761088 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:57:21 | 4.4 | 12.7 | 22.30027183 | 114.1761122 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:57:23 | 4.7 | 22 | 22.300309 | 114.1761248 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:57:24 | 4 | 26 | 22.30034333 | 114.176136 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:58:05 | 4.8 | 10.1 | 22.30270883 | 114.1769773 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:58:06 | 4.4 | 14.6 | 22.30271283 | 114.1769785 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:58:07 | 4.6 | 19.3 | 22.30272717 | 114.1769872 |
| 76129 | | STD | 2018-07-25 | N281 | TX5380 | N281 | KAMYNG | 2018-07-25 03:00:54 | 2018-07-25 03:00:00 | 2018-07-25 03:58:08 | 4.4 | 23.7 | 22.30275217 | 114.1770018 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:09:26 | 4.7 | 8.5 | 22.30217683 | 114.1837133 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:09:27 | 4.2 | 12.8 | 22.30217683 | 114.1837173 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:13:51 | 4.9 | 8.6 | 22.330267 | 114.1786243 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:13:52 | 4.5 | 13.2 | 22.33027067 | 114.1786253 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:13:53 | 4.6 | 17.8 | 22.330281 | 114.1786265 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:13:54 | 4.8 | 22.7 | 22.33030433 | 114.1786285 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:14:27 | 5.4 | 9.3 | 22.3324695 | 114.1787575 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:14:28 | 4.9 | 14.2 | 22.33247483 | 114.1787577 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:14:29 | 4.9 | 19.2 | 22.33248517 | 114.1787583 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:15:09 | 5.4 | 9 | 22.33399483 | 114.1788512 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:15:10 | 4.8 | 13.8 | 22.333995 | 114.1788512 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:15:11 | 4.8 | 18.7 | 22.33400733 | 114.178851 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:15:12 | 4.8 | 23.6 | 22.33403283 | 114.1788523 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:23:55 | 4.9 | 8.8 | 22.3786705 | 114.204282 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:23:56 | 4.5 | 13.3 | 22.37867633 | 114.2042933 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:23:57 | 4.4 | 17.7 | 22.3786865 | 114.2043122 |
| 76129 | | STD | NULL | NULL | TX5380 | NULL | NULL | 2018-07-25 03:00:54 | NULL | 2018-07-25 04:23:58 | 4.6 | 22.4 | 22.37870233 | 114.2043387 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-25 20:47:43 | NULL | 2018-07-25 20:51:16 | 5.8 | 15.7 | 22.38419683 | 114.2083087 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-25 20:47:43 | NULL | 2018-07-25 20:51:17 | 4.8 | 20.6 | 22.38420567 | 114.2083202 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-25 20:47:43 | NULL | 2018-07-25 20:51:55 | 5.7 | 18.2 | 22.38347833 | 114.2097367 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-25 20:47:43 | NULL | 2018-07-25 20:51:56 | 4 | 22.2 | 22.3834655 | 114.2097602 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 20:55:37 | 4.2 | 26.8 | 22.38193133 | 114.2177937 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 20:55:38 | 4.2 | 31 | 22.38191083 | 114.217742 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 20:57:54 | 5.7 | 15.6 | 22.38286433 | 114.2117297 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 20:57:55 | 5.7 | 21.4 | 22.38286167 | 114.211705 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 20:59:07 | 6.2 | 16 | 22.3830655 | 114.210246 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 20:59:08 | 5.6 | 21.7 | 22.383077 | 114.2102213 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:00:43 | 5.1 | 10.3 | 22.38541867 | 114.2070713 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:00:44 | 5.5 | 15.9 | 22.38542733 | 114.2070628 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:00:45 | 5 | 20.9 | 22.38544167 | 114.2070463 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:01:32 | 6.5 | 16.5 | 22.38658783 | 114.2057458 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:01:33 | 4.8 | 21.4 | 22.38660333 | 114.2057263 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:02:09 | 4.7 | 15.1 | 22.38754117 | 114.2046938 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:02:47 | 4.7 | 12.2 | 22.38697517 | 114.2038263 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:02:48 | 5.8 | 18 | 22.38696133 | 114.2038133 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:02:49 | 4.1 | 22.2 | 22.38693883 | 114.2037898 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:03:19 | 5.9 | 15.8 | 22.38653967 | 114.2032972 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:03:20 | 5.2 | 21.1 | 22.38653217 | 114.2032875 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:05:23 | 7 | 14.1 | 22.38191717 | 114.2023807 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:05:24 | 5.2 | 19.4 | 22.38190833 | 114.2023902 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:06:42 | 5.8 | 16.3 | 22.3807855 | 114.2032288 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:06:43 | 4.8 | 21.1 | 22.3807805 | 114.203232 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:07:25 | 4.5 | 11.6 | 22.37985367 | 114.2039668 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:07:26 | 6 | 17.6 | 22.37984667 | 114.2039732 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:08:13 | 5.4 | 7.9 | 22.37925283 | 114.2043655 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:08:14 | 5.9 | 13.8 | 22.37925283 | 114.2043655 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:08:15 | 5.3 | 19.1 | 22.37925217 | 114.204366 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:09:30 | 6.3 | 13.1 | 22.37790433 | 114.2002602 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:09:31 | 5 | 18.2 | 22.37790467 | 114.2002538 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:11:17 | 6.6 | 15.4 | 22.37802567 | 114.1960777 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:11:18 | 4.4 | 19.8 | 22.37801817 | 114.196071 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:11:19 | 4.3 | 24.1 | 22.37800083 | 114.1960505 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:11:57 | 5 | 10 | 22.37727517 | 114.1950667 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:11:59 | 5 | 20.8 | 22.37727033 | 114.195052 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:13:13 | 6.6 | 12.2 | 22.37585883 | 114.1928345 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:13:14 | 5.5 | 17.8 | 22.37585817 | 114.1928332 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:14:00 | 5.4 | 16.3 | 22.375833 | 114.1910685 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:14:29 | 4.4 | 10 | 22.37557933 | 114.1905368 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:15:13 | 4.6 | 9.4 | 22.37598033 | 114.1898553 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:16:13 | 4.8 | 9 | 22.37511967 | 114.1884878 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:16:14 | 5.7 | 14.8 | 22.37511617 | 114.188481 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:16:15 | 5.1 | 19.9 | 22.37510917 | 114.1884682 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:16:45 | 4.9 | 13.5 | 22.374257 | 114.1868133 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:16:46 | 5.6 | 19.2 | 22.374258 | 114.1868015 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:17:31 | 6.3 | 14.1 | 22.37421283 | 114.1858882 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:17:32 | 5 | 19.1 | 22.374214 | 114.185884 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:19:03 | 5 | 20.6 | 22.37021633 | 114.1855068 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:19:47 | 5.2 | 14.7 | 22.37100833 | 114.186046 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:19:48 | 4.3 | 19 | 22.3710135 | 114.1860567 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:20:30 | 5.5 | 16.5 | 22.37001517 | 114.1878032 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:20:53 | 5.2 | 12.7 | 22.36948667 | 114.187364 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:20:54 | 5.7 | 18.4 | 22.36947933 | 114.1873588 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:20:55 | 4.3 | 22.8 | 22.36946233 | 114.187346 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:24:03 | 5.9 | 10.1 | 22.3731935 | 114.1817045 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:24:04 | 6.1 | 16.2 | 22.37319333 | 114.1817042 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:24:05 | 5 | 21.3 | 22.373179 | 114.1816812 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:24:56 | 6.1 | 17.4 | 22.37137717 | 114.1790977 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:26:09 | 5 | 12.2 | 22.36957183 | 114.1802685 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:26:16 | 4.5 | 28.2 | 22.369369 | 114.1802508 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:27:15 | 5.6 | 14.6 | 22.36877167 | 114.1788302 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:27:16 | 5.2 | 19.8 | 22.36876567 | 114.178818 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:27:39 | 4.8 | 13.5 | 22.3684695 | 114.1780772 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:27:40 | 5.7 | 19.3 | 22.36846533 | 114.1780665 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:28:21 | 5.9 | 12.3 | 22.367436 | 114.1763635 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:28:22 | 5.7 | 18.1 | 22.3674335 | 114.1763598 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:28:23 | 4.5 | 22.7 | 22.3674235 | 114.176345 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:29:33 | 5 | 9.5 | 22.36754417 | 114.1746662 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:29:34 | 5.2 | 14.8 | 22.3675395 | 114.1746632 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:29:35 | 4.6 | 19.4 | 22.36754517 | 114.1746463 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:32:00 | 4.9 | 11.4 | 22.372682 | 114.177651 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:32:01 | 5.5 | 16.9 | 22.37268583 | 114.1776472 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:32:02 | 4.6 | 21.6 | 22.3726995 | 114.177634 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:32:25 | 5.2 | 10.9 | 22.37326517 | 114.1771567 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:32:26 | 5.5 | 16.5 | 22.37326967 | 114.1771522 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:32:27 | 5 | 21.5 | 22.37328317 | 114.1771415 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:33:26 | 5.7 | 15.4 | 22.377353 | 114.1745435 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | WN.TAU | 2018-07-25 20:47:43 | 2018-07-25 20:55:00 | 2018-07-25 21:33:27 | 4.2 | 19.6 | 22.37736333 | 114.1745388 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:40:53 | 4.2 | 9.7 | 22.37782333 | 114.1746482 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:41:24 | 4.9 | 11.2 | 22.3767885 | 114.1750133 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:41:25 | 5 | 16.2 | 22.37678383 | 114.175016 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:42:07 | 5.4 | 11.3 | 22.37581283 | 114.1756265 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:42:08 | 6 | 17.3 | 22.3758055 | 114.17563 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:42:09 | 4.2 | 21.6 | 22.37578783 | 114.17564 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:42:48 | 5.6 | 13.5 | 22.3737315 | 114.177121 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:42:49 | 5.3 | 18.9 | 22.37372333 | 114.1771268 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:42:50 | 5 | 23.9 | 22.37370667 | 114.1771408 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:44:23 | 5.2 | 12.5 | 22.36873017 | 114.175301 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:44:24 | 5.9 | 18.4 | 22.36872367 | 114.1752963 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:44:52 | 6.7 | 10.3 | 22.368141 | 114.1748567 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:44:53 | 4.4 | 14.8 | 22.368141 | 114.1748567 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:45:48 | 5.3 | 13.4 | 22.367422 | 114.1751755 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:47:09 | 4.6 | 9.1 | 22.36731883 | 114.1755935 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:47:10 | 4.6 | 13.7 | 22.36731883 | 114.175594 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:48:32 | 5.2 | 15 | 22.36735867 | 114.1761063 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:48:33 | 5.2 | 20.2 | 22.3673615 | 114.1761202 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:49:26 | 5.1 | 9.1 | 22.369021 | 114.1791963 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:49:27 | 5.6 | 14.8 | 22.3690215 | 114.1791972 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:49:29 | 4.2 | 24.5 | 22.3690295 | 114.179234 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:50:36 | 4.8 | 11.6 | 22.369416 | 114.1801028 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:51:06 | 4.6 | 12.9 | 22.3702685 | 114.1796838 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:51:41 | 4.5 | 16.5 | 22.37102667 | 114.178989 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:51:42 | 4.7 | 21.3 | 22.3710385 | 114.178971 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:52:21 | 5 | 15.9 | 22.37258183 | 114.1804242 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:52:22 | 5 | 21 | 22.37259283 | 114.180439 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:52:23 | 4.2 | 25.2 | 22.37260717 | 114.1804655 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:53:57 | 5.3 | 11.8 | 22.37443783 | 114.1851378 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:55:30 | 5.7 | 19.5 | 22.37008217 | 114.1855002 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:55:31 | 4.1 | 23.7 | 22.37010233 | 114.1855127 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:56:03 | 5.2 | 18.1 | 22.37091883 | 114.1860615 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:56:04 | 4.6 | 22.7 | 22.37093267 | 114.1860818 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:56:45 | 4.8 | 15.4 | 22.36989383 | 114.1877632 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:57:52 | 4.1 | 8.3 | 22.36964933 | 114.1874983 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:57:54 | 5.2 | 18.3 | 22.36964117 | 114.187491 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:57:55 | 4 | 22.3 | 22.36962567 | 114.1874775 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:59:55 | 6.1 | 9.9 | 22.373874 | 114.1853023 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:59:56 | 6.3 | 16.2 | 22.373874 | 114.1853023 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 21:59:57 | 4 | 20.2 | 22.37388417 | 114.1853037 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:00:29 | 5.7 | 18.5 | 22.37440983 | 114.1862828 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:00:30 | 4.6 | 23.2 | 22.37440917 | 114.1863032 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:00:55 | 4.4 | 12.2 | 22.37466483 | 114.1876072 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:00:56 | 4.8 | 17 | 22.37468267 | 114.1876092 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:00:57 | 4 | 21.1 | 22.37473283 | 114.1876172 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:01:35 | 4.8 | 13.1 | 22.37596467 | 114.1894345 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:01:36 | 4.3 | 17.4 | 22.37597167 | 114.189442 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:02:37 | 5.1 | 13.8 | 22.37612467 | 114.1915695 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:02:38 | 4.7 | 18.5 | 22.37612883 | 114.1915798 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:03:23 | 4.4 | 18.2 | 22.37670367 | 114.1937298 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:03:57 | 4.3 | 9.5 | 22.37738033 | 114.1947523 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:03:59 | 5.5 | 20.5 | 22.377392 | 114.1947672 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:04:00 | 4.1 | 24.6 | 22.3774055 | 114.1947913 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:05:14 | 6.2 | 16.2 | 22.3778775 | 114.1955132 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:05:15 | 4.7 | 20.9 | 22.37788667 | 114.1955262 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:05:57 | 5.4 | 18.4 | 22.37879667 | 114.1976665 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:06:44 | 5 | 13.4 | 22.37801017 | 114.2007205 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:06:45 | 5.4 | 18.8 | 22.37800733 | 114.2007308 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:06:46 | 4.6 | 23.5 | 22.37799917 | 114.2007527 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:08:12 | 6.5 | 17.9 | 22.38110383 | 114.2027808 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:08:13 | 4.4 | 22.4 | 22.3811175 | 114.202772 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:09:27 | 6.8 | 15.6 | 22.38143583 | 114.2025792 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:10:12 | 4.9 | 13.5 | 22.38462283 | 114.2019418 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:10:13 | 6 | 19.5 | 22.3846325 | 114.2019427 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:10:59 | 5 | 17 | 22.38621867 | 114.2027118 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:11:25 | 4.7 | 8.3 | 22.386557 | 114.203099 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:11:26 | 4.5 | 12.9 | 22.38655833 | 114.2031003 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:11:27 | 5.6 | 18.6 | 22.38656533 | 114.2031082 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:12:47 | 4.5 | 12.7 | 22.387652 | 114.2042852 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:13:40 | 5.4 | 9.8 | 22.3871645 | 114.2053587 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:13:41 | 5.5 | 15.3 | 22.38716217 | 114.2053635 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:13:42 | 5.1 | 20.5 | 22.38715533 | 114.2053738 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:15:00 | 6.3 | 13.4 | 22.385988 | 114.2066155 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:15:39 | 4.5 | 12.7 | 22.38398583 | 114.2088457 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:17:09 | 4.5 | 9.9 | 22.38303883 | 114.2148097 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:17:10 | 5.1 | 15.1 | 22.3830395 | 114.2148073 |
| 76129 | | STD | 2018-07-25 | N281 | UW3919 | 82K | MEILAM | 2018-07-25 21:38:52 | 2018-07-25 21:40:00 | 2018-07-25 22:17:11 | 5.1 | 20.3 | 22.38303483 | 114.2148172 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-25 21:38:52 | NULL | 2018-07-25 22:25:06 | 5.5 | 10.9 | 22.38312467 | 114.2144078 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-25 21:38:52 | NULL | 2018-07-25 22:25:07 | 5.7 | 16.7 | 22.3831315 | 114.2143828 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-25 21:38:52 | NULL | 2018-07-25 22:25:08 | 5.2 | 22 | 22.38313633 | 114.2143663 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-25 21:38:52 | NULL | 2018-07-25 22:25:09 | 4.6 | 26.6 | 22.38314467 | 114.214339 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-25 21:38:52 | NULL | 2018-07-25 22:26:15 | 5.3 | 18.1 | 22.38302367 | 114.2103878 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-25 21:38:52 | NULL | 2018-07-25 22:32:38 | 5.1 | 23.4 | 22.42137767 | 114.2324572 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-25 21:38:52 | NULL | 2018-07-25 22:35:25 | 4.1 | 9.2 | 22.42335183 | 114.2372875 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:51:12 | 5 | 11.3 | 22.42397233 | 114.2380542 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:51:13 | 5.2 | 16.6 | 22.42397117 | 114.2380587 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:51:14 | 5.5 | 22.1 | 22.423967 | 114.2380747 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:52:39 | 6 | 12.7 | 22.4252035 | 114.2399873 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:52:40 | 5.6 | 18.4 | 22.42520917 | 114.2399818 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:52:41 | 5.4 | 23.8 | 22.42522817 | 114.2399698 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:53:36 | 5.6 | 12.5 | 22.42626167 | 114.2392242 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:53:37 | 5.3 | 17.8 | 22.42626333 | 114.2392187 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:53:38 | 4.7 | 22.5 | 22.42626533 | 114.2391948 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:54:17 | 5.4 | 12.9 | 22.42544083 | 114.2357323 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:54:18 | 5.5 | 18.4 | 22.425442 | 114.2357257 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:54:19 | 5.2 | 23.6 | 22.42544267 | 114.2357047 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:54:20 | 4.1 | 27.8 | 22.4254455 | 114.2356693 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:55:23 | 5.1 | 11 | 22.425258 | 114.2343675 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:55:24 | 5.4 | 16.4 | 22.425257 | 114.2343627 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:55:25 | 5.3 | 21.7 | 22.42525167 | 114.2343468 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:56:49 | 5.2 | 12.7 | 22.4230915 | 114.2284998 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:56:50 | 5.7 | 18.4 | 22.42308483 | 114.228493 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:56:51 | 4.7 | 23.2 | 22.4230715 | 114.2284768 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:57:39 | 5 | 13.5 | 22.422582 | 114.2280725 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:58:55 | 5.1 | 15.9 | 22.41802267 | 114.2306092 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-25 23:58:56 | 4.4 | 20.4 | 22.418015 | 114.2306242 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:01:20 | 6 | 14.3 | 22.406699 | 114.222478 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:01:21 | 4.5 | 18.9 | 22.4066935 | 114.2224743 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:02:13 | 5 | 0 | 22.40536833 | 114.2231708 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:02:26 | 5.6 | 13.5 | 22.40536667 | 114.2231203 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:02:27 | 5.1 | 18.6 | 22.40536533 | 114.2231132 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:02:28 | 4.1 | 22.8 | 22.40537317 | 114.2230908 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:03:43 | 5.1 | 9.3 | 22.4063495 | 114.2224015 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:06:44 | 5.3 | 13.4 | 22.392897 | 114.207713 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:06:45 | 5.9 | 19.3 | 22.39288983 | 114.2077058 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:06:46 | 4.1 | 23.5 | 22.39287517 | 114.2076907 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:06:47 | 4 | 27.6 | 22.39284967 | 114.207666 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:07:20 | 4.9 | 10.6 | 22.39142183 | 114.2063172 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:07:21 | 5.5 | 16.2 | 22.39141583 | 114.2063117 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:07:22 | 5.2 | 21.4 | 22.3914045 | 114.2062983 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:07:35 | 6 | 11.5 | 22.39106083 | 114.2059358 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:07:36 | 6.3 | 17.8 | 22.3910575 | 114.2059323 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:07:37 | 4.7 | 22.6 | 22.39104767 | 114.2059212 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:08:35 | 4.4 | 9.8 | 22.388526 | 114.2018403 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:08:36 | 5.6 | 15.4 | 22.38852333 | 114.2018373 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:08:37 | 5.4 | 20.8 | 22.38851567 | 114.201826 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:09:54 | 6.9 | 14.3 | 22.38713417 | 114.2004268 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:09:55 | 5.7 | 20 | 22.38713067 | 114.2004222 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:09:56 | 4.1 | 24.2 | 22.38711567 | 114.2004078 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:11:19 | 4.4 | 25.2 | 22.38080967 | 114.1944513 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:12:06 | 5.8 | 14.1 | 22.37916883 | 114.1965128 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:12:16 | 4.4 | 23.8 | 22.3788925 | 114.1966412 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:12:46 | 5.4 | 16.8 | 22.37802967 | 114.1959972 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:12:47 | 4.8 | 21.7 | 22.378024 | 114.1959887 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:13:14 | 4.5 | 9 | 22.377388 | 114.1951503 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:13:15 | 5.1 | 14.1 | 22.37738433 | 114.1951465 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:13:16 | 5.5 | 19.6 | 22.37737733 | 114.1951352 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:14:42 | 5 | 10.4 | 22.375818 | 114.1927243 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:14:43 | 5.5 | 16 | 22.37581383 | 114.1927177 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:14:44 | 5.2 | 21.3 | 22.37580533 | 114.1927027 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:15:45 | 5.4 | 13.2 | 22.37512183 | 114.188439 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:15:46 | 5.9 | 19.2 | 22.37511767 | 114.1884325 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:17:55 | 5.2 | 10.8 | 22.370678 | 114.177851 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:17:56 | 7.2 | 18.1 | 22.37067683 | 114.1778473 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:18:54 | 6.4 | 16.6 | 22.36797217 | 114.1746035 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:18:55 | 4.9 | 21.5 | 22.367958 | 114.1745982 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:19:39 | 5.2 | 13.9 | 22.365305 | 114.172979 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:19:40 | 5.8 | 19.8 | 22.36529733 | 114.1729703 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:20:14 | 4.7 | 8.7 | 22.36417983 | 114.1719653 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:20:15 | 5.4 | 14.2 | 22.36417817 | 114.1719638 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:20:16 | 6 | 20.2 | 22.36417167 | 114.1719547 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:20:39 | 4.2 | 24.6 | 22.36337217 | 114.1713505 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:21:43 | 5.3 | 21.4 | 22.36524217 | 114.175107 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:21:44 | 4.5 | 25.9 | 22.36526833 | 114.1751243 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:22:37 | 5.5 | 11.5 | 22.36616967 | 114.1760925 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:22:38 | 5.4 | 17 | 22.36617167 | 114.1760987 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:22:39 | 4.1 | 21.1 | 22.3661775 | 114.1761147 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:23:26 | 5.1 | 10.1 | 22.36695267 | 114.176218 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:23:27 | 6.1 | 16.2 | 22.36696083 | 114.1762193 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:23:28 | 5.5 | 21.8 | 22.36697783 | 114.176218 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:24:36 | 4.2 | 7.7 | 22.36895083 | 114.1790005 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:24:40 | 4 | 24.4 | 22.36897583 | 114.179062 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:30:57 | 7.6 | 17.3 | 22.340224 | 114.179409 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:30:58 | 5.6 | 22.9 | 22.34021833 | 114.179409 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:32:26 | 4.8 | 10.8 | 22.33328217 | 114.178879 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:32:27 | 5.2 | 16 | 22.33324467 | 114.1788818 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:32:28 | 4.4 | 20.5 | 22.3332155 | 114.1788802 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:33:18 | 6 | 11.2 | 22.33103383 | 114.1787463 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:33:19 | 4.9 | 16.2 | 22.33102783 | 114.1787453 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:33:20 | 4.3 | 20.5 | 22.33101333 | 114.1787443 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:36:21 | 6.4 | 11.5 | 22.32092483 | 114.1773758 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:36:22 | 5.4 | 17 | 22.32092883 | 114.1773767 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:37:19 | 5 | 12.2 | 22.31767433 | 114.1750037 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:37:20 | 5.8 | 18 | 22.31766933 | 114.1750007 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:37:21 | 4.7 | 22.7 | 22.31765317 | 114.1749918 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:38:02 | 6 | 12.6 | 22.31672717 | 114.174407 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:38:50 | 4.4 | 8.2 | 22.31442533 | 114.1725212 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:38:51 | 5.2 | 13.5 | 22.31442317 | 114.1725187 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:38:52 | 4.7 | 18.3 | 22.31441667 | 114.172511 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:39:10 | 5.3 | 14.9 | 22.3141735 | 114.1722955 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:39:11 | 4.9 | 19.8 | 22.314166 | 114.1722903 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:40:38 | 5.1 | 13.5 | 22.312965 | 114.1709353 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:40:44 | 4 | 25.7 | 22.31285233 | 114.1707885 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:41:10 | 6.3 | 15.1 | 22.3118875 | 114.171053 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:41:11 | 5.4 | 20.6 | 22.31188167 | 114.1710395 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:43:10 | 4 | 14.1 | 22.30111367 | 114.1719293 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:44:08 | 5.6 | 11.3 | 22.29988683 | 114.1720283 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:44:09 | 5.3 | 16.7 | 22.29988233 | 114.1720287 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:44:10 | 4.6 | 21.4 | 22.299868 | 114.1720232 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:46:05 | 5.6 | 13.7 | 22.29504883 | 114.1722592 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:46:06 | 5.4 | 19.1 | 22.2950355 | 114.1722572 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:47:36 | 5 | 11.9 | 22.30000617 | 114.1760108 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:47:37 | 5.5 | 17.5 | 22.3000115 | 114.1760107 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:47:38 | 5 | 22.5 | 22.3000275 | 114.176019 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-25 23:49:38 | 2018-07-25 23:50:00 | 2018-07-26 00:48:06 | 4.4 | 25.5 | 22.30188983 | 114.1767488 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:21:29 | 9.4 | 16.7 | 22.3024815 | 114.1782948 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:21:31 | 4.4 | 27 | 22.30249033 | 114.1782717 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:22:45 | 4.9 | 12.5 | 22.29865767 | 114.1758672 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:22:46 | 5.6 | 18.1 | 22.298651 | 114.175865 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:22:47 | 4.6 | 22.8 | 22.29863283 | 114.1758627 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:23:33 | 6.2 | 16.2 | 22.29568 | 114.1752788 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:23:34 | 5.2 | 21.4 | 22.29567033 | 114.175277 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:24:07 | 5.7 | 17.5 | 22.29473117 | 114.1740172 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:24:08 | 4.8 | 22.3 | 22.29473117 | 114.1739978 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:25:32 | 6.8 | 15 | 22.294667 | 114.1725325 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:25:33 | 4.9 | 19.9 | 22.29466717 | 114.1725277 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:25:56 | 5.2 | 13 | 22.29533617 | 114.1722767 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:25:57 | 5.8 | 18.9 | 22.29534533 | 114.1722785 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:25:58 | 4.1 | 23 | 22.295365 | 114.172282 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:26:27 | 6.4 | 16.5 | 22.2963185 | 114.1723523 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:26:28 | 5.2 | 21.8 | 22.2963295 | 114.1723488 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:27:38 | 5.8 | 15.1 | 22.297956 | 114.1723825 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:27:39 | 4.9 | 20 | 22.2979655 | 114.1723785 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:28:14 | 5.7 | 15.9 | 22.3004005 | 114.1721362 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:28:15 | 4.9 | 20.9 | 22.300412 | 114.1721357 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:28:43 | 5.5 | 16 | 22.30186517 | 114.171939 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:28:44 | 5 | 21 | 22.30187967 | 114.1719353 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:29:21 | 4 | 13.3 | 22.30427567 | 114.1717887 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:29:54 | 5.8 | 16.3 | 22.30477883 | 114.171799 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:29:55 | 5.4 | 21.7 | 22.30478933 | 114.1717992 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:29:56 | 4.3 | 26.1 | 22.3048145 | 114.1717995 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:30:28 | 5.4 | 11.8 | 22.3068605 | 114.1716755 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:30:29 | 5.5 | 17.4 | 22.30686483 | 114.171673 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:31:12 | 5.9 | 9.3 | 22.30809917 | 114.1715668 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:31:13 | 6 | 15.3 | 22.30809933 | 114.1715668 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:31:14 | 5 | 20.4 | 22.308109 | 114.1715667 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:31:42 | 4.3 | 9.6 | 22.30945233 | 114.1714613 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:31:43 | 5.1 | 14.7 | 22.30945817 | 114.171453 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:31:44 | 5.2 | 20 | 22.30947117 | 114.1714423 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:32:03 | 4.8 | 12 | 22.310075 | 114.1712665 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:32:04 | 5.9 | 17.9 | 22.31008167 | 114.1712598 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:32:05 | 4.6 | 22.5 | 22.31009917 | 114.1712528 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:32:47 | 5 | 20.3 | 22.31329 | 114.1706618 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:33:16 | 5.1 | 14.5 | 22.31421467 | 114.1705215 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:33:17 | 4.4 | 18.9 | 22.314225 | 114.17052 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:34:47 | 5 | 14.3 | 22.31801417 | 114.1697442 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:34:48 | 5.6 | 19.9 | 22.31802683 | 114.1697442 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:35:59 | 5.7 | 15.4 | 22.31895283 | 114.1696155 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:36:23 | 5.3 | 20.4 | 22.31917567 | 114.1686375 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:36:24 | 4 | 24.5 | 22.31916867 | 114.1686087 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:38:33 | 5.4 | 15.8 | 22.32097433 | 114.1702743 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:38:34 | 4.9 | 20.7 | 22.320976 | 114.1702882 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:39:46 | 5.4 | 17.9 | 22.320177 | 114.1738373 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:39:47 | 4 | 21.9 | 22.320182 | 114.1738588 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:40:17 | 5.4 | 15.6 | 22.32056717 | 114.175803 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:40:18 | 4.9 | 20.5 | 22.32056983 | 114.17582 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:44:24 | 4.8 | 11.1 | 22.33981883 | 114.1791652 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:44:25 | 5.6 | 16.7 | 22.339824 | 114.1791655 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:44:26 | 4.1 | 20.8 | 22.33984033 | 114.1791665 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:44:27 | 4.2 | 25.1 | 22.339869 | 114.179168 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:49:23 | 4.2 | 47.6 | 22.36475383 | 114.1808342 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:50:52 | 5.4 | 13.2 | 22.3684655 | 114.1780732 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:50:53 | 5 | 18.2 | 22.36846133 | 114.178064 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:50:54 | 4.5 | 22.8 | 22.36845283 | 114.1780435 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:52:20 | 6.2 | 14.5 | 22.36742033 | 114.1763665 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:52:21 | 4.7 | 19.3 | 22.36742217 | 114.1763685 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:53:23 | 5.6 | 15.3 | 22.36543717 | 114.1753928 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:53:24 | 4.9 | 20.2 | 22.36542967 | 114.1753812 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:55:18 | 4.5 | 14 | 22.36336667 | 114.1713892 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:56:54 | 5.4 | 11.5 | 22.36742667 | 114.1742637 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:56:55 | 5.9 | 17.5 | 22.36743167 | 114.1742652 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:56:56 | 4.8 | 22.3 | 22.36744717 | 114.174271 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:58:24 | 5.4 | 11.7 | 22.3726185 | 114.1804135 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:58:25 | 5.8 | 17.5 | 22.37262417 | 114.1804183 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:58:26 | 5 | 22.5 | 22.37263367 | 114.1804343 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:59:06 | 4.6 | 9.5 | 22.3731295 | 114.1812417 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:59:07 | 5.3 | 14.9 | 22.37313317 | 114.1812468 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:59:08 | 5.5 | 20.4 | 22.37314083 | 114.181257 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:59:09 | 4.3 | 24.8 | 22.37315583 | 114.1812787 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:59:53 | 5.4 | 13.4 | 22.37463183 | 114.1841645 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 01:59:54 | 5.7 | 19.2 | 22.3746305 | 114.1841725 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:00:25 | 5.7 | 18.5 | 22.37450267 | 114.1852117 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:00:26 | 4.5 | 23 | 22.374499 | 114.185231 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:01:28 | 6.9 | 16.4 | 22.374914 | 114.1878367 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:01:29 | 5 | 21.5 | 22.37491733 | 114.1878378 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:03:19 | 5.3 | 13.5 | 22.3761345 | 114.1915897 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:03:20 | 6 | 19.5 | 22.3761375 | 114.1916005 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:04:11 | 5.1 | 9.5 | 22.375938 | 114.1924643 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:04:12 | 4.6 | 14.1 | 22.37593783 | 114.1924643 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:04:48 | 6 | 16.7 | 22.37653367 | 114.1938028 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:04:49 | 5 | 21.7 | 22.376543 | 114.1938147 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:05:24 | 4.9 | 11.9 | 22.377619 | 114.19526 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:05:25 | 5.8 | 17.8 | 22.377625 | 114.1952705 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:05:26 | 4.3 | 22.1 | 22.377634 | 114.195289 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:06:34 | 6.4 | 16.3 | 22.38073183 | 114.1944248 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:06:35 | 4.6 | 21 | 22.38074167 | 114.1944157 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:08:27 | 6.1 | 14.2 | 22.38917567 | 114.2025608 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:08:28 | 5.6 | 19.9 | 22.3891755 | 114.202571 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:09:24 | 5.1 | 8.1 | 22.39174483 | 114.2063533 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:09:25 | 5.3 | 13.5 | 22.39174483 | 114.2063533 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:09:26 | 5.7 | 19.2 | 22.39175517 | 114.2063617 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:10:01 | 4.7 | 22.4 | 22.39270283 | 114.2073518 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:13:58 | 4.9 | 20.7 | 22.40537717 | 114.22311 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:14:33 | 5.6 | 14.1 | 22.40636783 | 114.22244 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:14:34 | 5.6 | 19.8 | 22.40637267 | 114.2224325 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:14:35 | 4.3 | 24.2 | 22.40638467 | 114.2224157 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:15:05 | 5.2 | 14.2 | 22.40708533 | 114.2214765 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:17:33 | 6.2 | 15.2 | 22.418221 | 114.230118 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:17:34 | 6 | 21.3 | 22.41822783 | 114.2301047 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:17:35 | 4.6 | 25.9 | 22.4182405 | 114.2300812 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:18:32 | 5 | 12.6 | 22.42181667 | 114.2285557 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:18:33 | 5.9 | 18.6 | 22.42182017 | 114.2285515 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:18:34 | 4 | 22.7 | 22.4218335 | 114.2285362 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:19:56 | 5.9 | 14.3 | 22.42222283 | 114.2278808 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:19:57 | 5.4 | 19.8 | 22.42222983 | 114.227865 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | HH.STN | 2018-07-26 01:18:51 | 2018-07-26 01:20:00 | 2018-07-26 02:22:27 | 4.2 | 12.4 | 22.42570283 | 114.239849 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:01:32 | 6.3 | 15.3 | 22.42518267 | 114.2399905 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:01:33 | 5.6 | 20.9 | 22.42518917 | 114.2399867 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:01:34 | 4.3 | 25.3 | 22.4252115 | 114.2399757 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:01:35 | 4.3 | 29.7 | 22.425248 | 114.239963 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:01:56 | 5.2 | 10.4 | 22.42601167 | 114.2395048 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:02:46 | 5 | 9.5 | 22.42627033 | 114.2392492 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:02:47 | 5.2 | 14.7 | 22.42626983 | 114.239251 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:02:48 | 5.3 | 20.1 | 22.42627183 | 114.2392412 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:04:12 | 5 | 11.7 | 22.42532517 | 114.2343763 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:04:13 | 5.6 | 17.4 | 22.42532433 | 114.234367 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:04:14 | 5.3 | 22.7 | 22.42531883 | 114.234345 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:04:56 | 4.7 | 15.7 | 22.42435883 | 114.2314753 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:06:08 | 5.3 | 10.7 | 22.422518 | 114.2279667 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:06:09 | 5.8 | 16.5 | 22.42251383 | 114.2279643 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:07:23 | 4.8 | 14.9 | 22.41807533 | 114.2306592 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:07:24 | 4.5 | 19.4 | 22.41806883 | 114.230673 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:14:14 | 5.7 | 13.1 | 22.39091033 | 114.205802 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:14:15 | 6.8 | 19.9 | 22.39090867 | 114.205801 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:15:58 | 6.8 | 12.5 | 22.38726517 | 114.20056 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:15:59 | 6.1 | 18.6 | 22.3872645 | 114.2005545 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:17:13 | 5.1 | 10.7 | 22.38201533 | 114.1955118 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:17:14 | 4.2 | 15 | 22.38200467 | 114.1955008 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:17:15 | 5 | 20.1 | 22.3819895 | 114.1954852 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:17:16 | 4.5 | 24.6 | 22.38196683 | 114.1954617 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:18:41 | 5.6 | 11.9 | 22.37795467 | 114.1958982 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:18:42 | 6.4 | 18.3 | 22.37795583 | 114.195901 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:18:43 | 4.9 | 23.3 | 22.3779455 | 114.1958878 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:19:11 | 4.6 | 9.6 | 22.37724933 | 114.1949627 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:19:12 | 5.3 | 15 | 22.37724667 | 114.1949588 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:19:13 | 5.9 | 20.9 | 22.3772395 | 114.1949472 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:19:54 | 4.5 | 8.9 | 22.37553217 | 114.1920783 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:19:55 | 4.8 | 13.7 | 22.37553 | 114.1920733 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:19:56 | 5.9 | 19.7 | 22.37552533 | 114.1920613 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:19:57 | 4.1 | 23.9 | 22.37552017 | 114.1920375 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:20:48 | 6.1 | 16.9 | 22.375171 | 114.1885542 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:20:49 | 4.7 | 21.7 | 22.37516383 | 114.1885423 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:23:44 | 4.5 | 8.9 | 22.36789633 | 114.1745562 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:23:45 | 5.4 | 14.3 | 22.367898 | 114.1745582 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:23:46 | 6.3 | 20.7 | 22.36789083 | 114.1745553 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:27:25 | 5.7 | 12.5 | 22.36708833 | 114.176243 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:27:26 | 5.9 | 18.4 | 22.36709633 | 114.1762397 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:28:17 | 5.5 | 15.6 | 22.36898367 | 114.1791405 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:28:18 | 5.9 | 21.6 | 22.3689905 | 114.1791538 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:29:22 | 4.9 | 14 | 22.36938283 | 114.1801588 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:35:33 | 5.6 | 18.5 | 22.3402875 | 114.1794095 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:35:34 | 4.7 | 23.2 | 22.34026633 | 114.1794058 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:35:35 | 4.4 | 27.6 | 22.3402325 | 114.1794033 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:36:37 | 6.4 | 12 | 22.33934017 | 114.1792852 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:36:38 | 6.2 | 18.3 | 22.339337 | 114.1792853 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:36:39 | 4.5 | 22.8 | 22.33932083 | 114.1792845 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:36:40 | 4.2 | 27.1 | 22.3392895 | 114.1792828 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:37:55 | 6 | 17.2 | 22.332738 | 114.178881 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:37:56 | 5.1 | 22.4 | 22.33272283 | 114.1788808 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:38:45 | 5.1 | 12.4 | 22.33052067 | 114.178746 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:38:46 | 5.7 | 18.1 | 22.33050717 | 114.178745 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:38:47 | 4.6 | 22.7 | 22.3304865 | 114.1787437 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:41:20 | 4.8 | 12.1 | 22.320816 | 114.1773505 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:41:21 | 5.7 | 17.8 | 22.32081367 | 114.1773433 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:41:22 | 4.6 | 22.5 | 22.32079717 | 114.1773285 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:42:15 | 5.2 | 12.4 | 22.31773617 | 114.1749958 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:42:16 | 5.9 | 18.4 | 22.31773083 | 114.174992 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:42:17 | 5 | 23.4 | 22.31771533 | 114.174981 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:43:02 | 5.3 | 14.8 | 22.31663667 | 114.1741948 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:43:03 | 5.5 | 20.4 | 22.31662667 | 114.1741887 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:44:06 | 5.9 | 16.6 | 22.31400767 | 114.1721758 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:44:07 | 5.2 | 21.9 | 22.313998 | 114.1721683 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:44:31 | 5 | 14 | 22.31340367 | 114.171718 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:44:32 | 5.8 | 19.8 | 22.31339467 | 114.1717102 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:46:05 | 4.3 | 14.8 | 22.30665283 | 114.1715735 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:46:06 | 4.6 | 19.4 | 22.30663517 | 114.171574 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:47:12 | 5.2 | 14.4 | 22.30585 | 114.1715732 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:47:13 | 5.4 | 19.9 | 22.30583967 | 114.1715742 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:47:51 | 4.5 | 10.7 | 22.3043865 | 114.1716947 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:47:52 | 5.1 | 15.8 | 22.30437933 | 114.1716967 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:47:53 | 4.6 | 20.5 | 22.304361 | 114.1716943 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:48:11 | 4.6 | 20.1 | 22.3035715 | 114.1717517 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:49:06 | 6.1 | 12.2 | 22.29987067 | 114.1719743 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:49:07 | 6.1 | 18.4 | 22.299868 | 114.1719747 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:49:08 | 5.4 | 23.8 | 22.29985267 | 114.1719755 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:50:28 | 4.8 | 9.9 | 22.296584 | 114.1722178 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:50:29 | 5.4 | 15.4 | 22.29657867 | 114.1722137 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:50:31 | 4.1 | 25.2 | 22.296529 | 114.1721857 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:50:53 | 4.5 | 8.9 | 22.2957185 | 114.1723387 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:50:54 | 4.8 | 13.8 | 22.295719 | 114.1723378 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:50:55 | 5.6 | 19.4 | 22.29570967 | 114.1723318 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:52:13 | 4.4 | 24.9 | 22.29468733 | 114.1725878 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:53:34 | 5.3 | 12.1 | 22.30021817 | 114.1760977 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:53:35 | 5.5 | 17.7 | 22.30022483 | 114.176101 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 02:59:51 | 2018-07-26 03:00:00 | 2018-07-26 03:53:36 | 4.9 | 22.6 | 22.30024283 | 114.1761083 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 02:59:51 | NULL | 2018-07-26 04:06:34 | 4.5 | 22.6 | 22.303713 | 114.1828302 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 02:59:51 | NULL | 2018-07-26 04:06:35 | 4 | 26.6 | 22.30368083 | 114.1828488 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 02:59:51 | NULL | 2018-07-26 04:07:22 | 5 | 12 | 22.30217767 | 114.183717 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 02:59:51 | NULL | 2018-07-26 04:07:23 | 5 | 17 | 22.30217833 | 114.1837237 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 02:59:51 | NULL | 2018-07-26 04:07:24 | 4.4 | 21.4 | 22.30218333 | 114.1837498 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 02:59:51 | NULL | 2018-07-26 04:12:40 | 4.5 | 14.5 | 22.33380483 | 114.1788258 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 02:59:51 | NULL | 2018-07-26 04:12:41 | 5.2 | 19.8 | 22.33382267 | 114.1788268 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 02:59:51 | NULL | 2018-07-26 04:12:42 | 4.4 | 24.2 | 22.33384967 | 114.1788275 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 02:59:51 | NULL | 2018-07-26 04:21:42 | 5.5 | 16.1 | 22.37869133 | 114.2044013 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 02:59:51 | NULL | 2018-07-26 04:21:43 | 5.6 | 21.7 | 22.3787015 | 114.2044175 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 02:59:51 | NULL | 2018-07-26 04:22:31 | 4.3 | 7.7 | 22.38107267 | 114.20679 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 20:47:09 | NULL | 2018-07-26 20:51:03 | 4.9 | 7.9 | 22.38331517 | 114.2100195 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 20:47:09 | NULL | 2018-07-26 20:51:04 | 5.2 | 13.1 | 22.38331783 | 114.210017 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 20:47:09 | NULL | 2018-07-26 20:51:05 | 5.5 | 18.7 | 22.383317 | 114.2100228 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 20:47:09 | NULL | 2018-07-26 20:51:06 | 4 | 22.8 | 22.38331067 | 114.2100422 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 20:47:09 | NULL | 2018-07-26 20:54:58 | 4.9 | 9.1 | 22.38214017 | 114.2179615 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 20:47:09 | NULL | 2018-07-26 20:54:59 | 4.5 | 13.6 | 22.38212967 | 114.217958 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:55:05 | 4.8 | 24.3 | 22.381977 | 114.2178707 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:55:06 | 4.6 | 28.9 | 22.38195367 | 114.2178315 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:55:07 | 4.1 | 33.1 | 22.38193317 | 114.2177798 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:55:48 | 4.3 | 15.1 | 22.383076 | 114.2145243 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:55:49 | 4.5 | 19.7 | 22.38308433 | 114.214503 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:55:50 | 4.8 | 24.5 | 22.38309617 | 114.214472 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:56:45 | 6.1 | 7.5 | 22.38288733 | 114.211779 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:56:46 | 5.5 | 13.1 | 22.38288717 | 114.2117788 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:56:47 | 6 | 19.2 | 22.3828855 | 114.211768 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:56:48 | 4.7 | 24 | 22.382883 | 114.2117415 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:58:20 | 6.7 | 11.3 | 22.38307567 | 114.2102508 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:58:21 | 6.4 | 17.8 | 22.38308267 | 114.2102305 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:58:22 | 4.9 | 22.7 | 22.383093 | 114.2102063 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:58:51 | 4.8 | 7.7 | 22.38400967 | 114.2085965 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:58:52 | 5.2 | 12.9 | 22.38401167 | 114.2085925 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:58:53 | 5.9 | 18.8 | 22.38401767 | 114.2085795 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:59:43 | 5.7 | 9.3 | 22.38662 | 114.2056878 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:59:44 | 5.9 | 15.3 | 22.3866225 | 114.2056838 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 20:59:45 | 5.5 | 20.9 | 22.38663317 | 114.2056703 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:00:21 | 6.2 | 12 | 22.38751183 | 114.2047155 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:00:22 | 6.5 | 18.5 | 22.38751983 | 114.204708 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:00:53 | 4.9 | 11.1 | 22.38689167 | 114.203994 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:00:55 | 4.9 | 21.5 | 22.38686583 | 114.203975 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:01:55 | 5.9 | 12.5 | 22.38639083 | 114.2033157 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:01:56 | 5.5 | 18.1 | 22.38638333 | 114.2033087 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:01:57 | 4.8 | 22.9 | 22.38636533 | 114.20329 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:03:53 | 5.1 | 8.3 | 22.38180917 | 114.2025215 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:03:55 | 5.9 | 19.9 | 22.38180633 | 114.2025245 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:04:17 | 4.7 | 20.3 | 22.380728 | 114.2033117 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:04:46 | 5.2 | 10.7 | 22.379806 | 114.2040212 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:04:47 | 6 | 16.8 | 22.37980417 | 114.2040222 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:04:48 | 5.2 | 22 | 22.37979583 | 114.2040268 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:05:51 | 5.4 | 9.9 | 22.379242 | 114.204438 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:05:52 | 5.3 | 15.3 | 22.379242 | 114.204438 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:05:53 | 4.1 | 19.4 | 22.37924433 | 114.2044305 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:08:16 | 5.8 | 9.9 | 22.377991 | 114.1960017 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:08:17 | 4.6 | 14.6 | 22.377991 | 114.1960017 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:08:19 | 4.5 | 23 | 22.3779735 | 114.1959798 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:08:42 | 4.7 | 6.3 | 22.37731133 | 114.1950968 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:08:43 | 5.1 | 11.5 | 22.37731133 | 114.1950968 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:08:44 | 5.5 | 17 | 22.377311 | 114.1950965 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:08:45 | 4.7 | 21.7 | 22.377306 | 114.195087 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:10:14 | 5.1 | 9.7 | 22.37584483 | 114.1927617 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:10:15 | 5.5 | 15.2 | 22.37584483 | 114.1927617 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:10:16 | 4.1 | 19.4 | 22.3758425 | 114.192755 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:10:48 | 4.2 | 19.5 | 22.37610283 | 114.1916135 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:10:49 | 4.1 | 23.7 | 22.3760915 | 114.1915832 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:11:09 | 5 | 8.8 | 22.37584767 | 114.1910793 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:11:10 | 5.4 | 14.3 | 22.37584767 | 114.1910793 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:11:11 | 5.5 | 19.8 | 22.37584617 | 114.1910702 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:12:10 | 4.4 | 7 | 22.37591217 | 114.189935 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:13:18 | 5.7 | 6.9 | 22.37522933 | 114.1886828 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:13:19 | 5.3 | 12.3 | 22.37522933 | 114.1886828 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:14:30 | 5.6 | 8.8 | 22.374231 | 114.1863407 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:14:31 | 5.2 | 14 | 22.374231 | 114.1863407 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:14:32 | 5.4 | 19.5 | 22.3742315 | 114.1863412 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:15:14 | 4.5 | 11.2 | 22.3733695 | 114.1855827 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:15:15 | 5.2 | 16.4 | 22.373365 | 114.185586 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:15:16 | 5 | 21.5 | 22.37335183 | 114.1855907 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:16:28 | 5.2 | 17.1 | 22.37016633 | 114.1855388 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:16:29 | 4.6 | 21.8 | 22.3701825 | 114.1855448 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:17:03 | 4.6 | 14.5 | 22.37101017 | 114.1860862 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:17:04 | 4.9 | 19.4 | 22.371019 | 114.186096 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:17:44 | 4.4 | 10.5 | 22.37003633 | 114.1878183 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:17:45 | 5.3 | 15.8 | 22.37003383 | 114.1878153 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:17:46 | 4.1 | 19.9 | 22.37002517 | 114.1878077 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:18:13 | 4.2 | 8.8 | 22.369494 | 114.1873785 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:18:14 | 5.4 | 14.2 | 22.36948967 | 114.187376 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:18:15 | 5 | 19.3 | 22.36948083 | 114.1873708 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:18:16 | 4.7 | 24 | 22.369464 | 114.1873612 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:20:11 | 5 | 9.2 | 22.37418467 | 114.185375 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:20:12 | 4.7 | 14 | 22.37418467 | 114.185375 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:21:03 | 5 | 18.8 | 22.37330533 | 114.1818858 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:21:04 | 4.2 | 23 | 22.373292 | 114.181866 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:21:31 | 4.6 | 17.8 | 22.3721525 | 114.1801635 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:21:32 | 4.7 | 22.6 | 22.372146 | 114.1801385 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:22:58 | 5.5 | 5.5 | 22.3696265 | 114.1802505 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:22:59 | 5 | 10.5 | 22.3696265 | 114.1802505 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:23:00 | 5.7 | 16.2 | 22.36964283 | 114.1802415 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:23:01 | 4 | 20.2 | 22.369631 | 114.1802493 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:24:05 | 5.3 | 10 | 22.368797 | 114.1789298 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:24:06 | 5.7 | 15.8 | 22.368797 | 114.1789298 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:24:07 | 5.3 | 21.2 | 22.3687905 | 114.1789148 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:26:20 | 5.9 | 7.1 | 22.367395 | 114.1763118 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:26:21 | 5.7 | 12.8 | 22.367395 | 114.1763118 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:26:22 | 6.2 | 19.1 | 22.3673955 | 114.176311 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:26:48 | 5.6 | 11.3 | 22.36724383 | 114.1754528 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:26:49 | 6 | 17.3 | 22.3672455 | 114.1754507 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:26:50 | 5 | 22.4 | 22.36724917 | 114.1754388 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:28:03 | 6.3 | 6.3 | 22.3675335 | 114.1746593 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:28:04 | 4.9 | 11.2 | 22.3675335 | 114.1746593 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:28:05 | 5.6 | 16.8 | 22.36755583 | 114.1746708 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:28:06 | 4.5 | 21.4 | 22.3675595 | 114.1746572 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:28:34 | 4.4 | 7.7 | 22.36878083 | 114.1750992 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:28:35 | 5.1 | 12.8 | 22.36878083 | 114.1750992 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:28:36 | 5.5 | 18.3 | 22.36878383 | 114.1751023 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:28:37 | 4.8 | 23.1 | 22.36879433 | 114.1751148 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:29:47 | 5.7 | 11.5 | 22.37244667 | 114.1778855 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:29:48 | 5.8 | 17.4 | 22.37244733 | 114.1778848 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:29:49 | 4.4 | 21.8 | 22.372456 | 114.1778767 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:31:09 | 4.7 | 8.9 | 22.37748183 | 114.1745077 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | WN.TAU | 2018-07-26 20:47:09 | 2018-07-26 20:55:00 | 2018-07-26 21:31:10 | 5.4 | 14.3 | 22.37748183 | 114.1745077 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:41:25 | 5.6 | 15 | 22.3758615 | 114.1755562 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:41:26 | 4.9 | 20 | 22.37585717 | 114.175559 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:41:59 | 4.2 | 7.8 | 22.37372383 | 114.1771043 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:42:00 | 5 | 12.8 | 22.37372217 | 114.1771057 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:42:01 | 5.5 | 18.4 | 22.37371733 | 114.1771093 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:42:02 | 4.6 | 23.1 | 22.37370417 | 114.1771208 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:43:33 | 4.4 | 8.7 | 22.36867283 | 114.1751808 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:43:34 | 5.2 | 13.9 | 22.36867283 | 114.1751808 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:43:35 | 5.6 | 19.5 | 22.36866817 | 114.1751773 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:44:57 | 5.1 | 6.4 | 22.367858 | 114.1746487 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:44:58 | 4.7 | 11.1 | 22.367858 | 114.1746487 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:45:04 | 4.4 | 21.8 | 22.3677645 | 114.1745597 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:45:05 | 4.2 | 26 | 22.36772183 | 114.1745822 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:45:31 | 4.9 | 7.2 | 22.367331 | 114.1760217 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:45:32 | 5.2 | 12.5 | 22.367331 | 114.1760217 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:45:33 | 5.7 | 18.3 | 22.36733133 | 114.1760247 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:45:34 | 4 | 22.4 | 22.3673345 | 114.176039 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:46:43 | 5.7 | 9.2 | 22.3687205 | 114.1784763 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:46:44 | 5.7 | 15 | 22.3687205 | 114.1784763 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:46:45 | 5.7 | 20.7 | 22.36872283 | 114.178486 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:47:08 | 4.3 | 7.8 | 22.36902983 | 114.1791665 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:47:31 | 5.6 | 7.9 | 22.369264 | 114.1798232 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:47:32 | 4.8 | 12.7 | 22.369264 | 114.1798232 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:47:58 | 4.7 | 18 | 22.370285 | 114.179642 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:47:59 | 4.5 | 22.5 | 22.3703035 | 114.1796252 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:48:31 | 4.8 | 15.2 | 22.37105433 | 114.1789193 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:48:32 | 4.5 | 19.8 | 22.37106317 | 114.1789073 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:49:23 | 5.2 | 9.4 | 22.37262733 | 114.180405 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:49:25 | 5.5 | 20.7 | 22.37263233 | 114.180411 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:50:49 | 4.5 | 4.5 | 22.37444667 | 114.1851968 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:50:50 | 4.8 | 9.3 | 22.37444667 | 114.1851968 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:50:51 | 5.4 | 14.8 | 22.37444667 | 114.1851968 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:50:52 | 5.3 | 20.1 | 22.37444483 | 114.1852058 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:51:25 | 4.5 | 8.3 | 22.3733805 | 114.1855308 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:51:26 | 5.2 | 13.6 | 22.3733805 | 114.1855308 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:51:27 | 5.7 | 19.4 | 22.37337417 | 114.1855343 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:51:28 | 4.1 | 23.6 | 22.37335683 | 114.18554 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:52:40 | 4.4 | 12.8 | 22.37013433 | 114.1854998 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:52:41 | 5.6 | 18.4 | 22.370144 | 114.1855047 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:52:42 | 4.3 | 22.7 | 22.37016067 | 114.1855128 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:53:10 | 5.2 | 13.5 | 22.37098833 | 114.1859617 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:53:11 | 5.2 | 18.8 | 22.37098417 | 114.1859973 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:53:51 | 4.7 | 14.4 | 22.37001217 | 114.1877232 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:53:52 | 4 | 18.5 | 22.370003 | 114.1877133 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:54:15 | 4.7 | 10.9 | 22.36975433 | 114.1874488 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:54:16 | 4.9 | 15.8 | 22.36975133 | 114.187446 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:54:17 | 4.5 | 20.4 | 22.36974183 | 114.1874367 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:56:46 | 4.7 | 9.6 | 22.374181 | 114.185321 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:56:47 | 5.7 | 15.3 | 22.374181 | 114.185321 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:56:48 | 4.7 | 20 | 22.37419017 | 114.185323 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:57:15 | 5.3 | 5.3 | 22.37444367 | 114.1863748 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:57:16 | 4.5 | 9.9 | 22.37444367 | 114.1863748 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:57:17 | 5.4 | 15.4 | 22.37444383 | 114.1863763 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:57:18 | 5.4 | 20.9 | 22.37444367 | 114.1863868 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:57:48 | 5.5 | 10.7 | 22.37485217 | 114.1877645 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:57:49 | 5.6 | 16.3 | 22.37485217 | 114.1877645 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:57:50 | 5 | 21.4 | 22.374858 | 114.1877725 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:58:48 | 5 | 10.4 | 22.3759555 | 114.1894373 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:58:49 | 4.1 | 14.6 | 22.37597517 | 114.1894483 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:59:42 | 4.6 | 8 | 22.37611867 | 114.1915673 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:59:43 | 5 | 13 | 22.37611867 | 114.1915673 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:59:44 | 6 | 19.1 | 22.376121 | 114.1915728 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 21:59:45 | 4.2 | 23.4 | 22.37612683 | 114.1915898 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:00:25 | 4.8 | 15.7 | 22.3764695 | 114.1937343 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:01:11 | 4.7 | 10.1 | 22.377282 | 114.1947717 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:01:12 | 5 | 15.1 | 22.3772825 | 114.1947758 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:01:13 | 5 | 20.2 | 22.37728933 | 114.1947863 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:02:14 | 5.4 | 9.3 | 22.37780167 | 114.195565 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:02:15 | 5.6 | 15 | 22.37780167 | 114.195565 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:02:16 | 5.1 | 20.1 | 22.3778065 | 114.195574 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:03:05 | 4.1 | 7 | 22.37873833 | 114.1977357 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:03:06 | 5 | 12 | 22.37873833 | 114.1977357 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:03:07 | 5.6 | 17.7 | 22.3787335 | 114.1977353 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:03:08 | 4.3 | 22.1 | 22.37872217 | 114.197746 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:09 | 5.4 | 5.4 | 22.37840467 | 114.1990193 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:10 | 5.9 | 11.4 | 22.37840467 | 114.1990193 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:11 | 6.3 | 17.7 | 22.37840467 | 114.1990193 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:12 | 4.6 | 22.3 | 22.37840933 | 114.1990168 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:27 | 4.1 | 6.2 | 22.3782385 | 114.1996945 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:28 | 5.2 | 11.5 | 22.378241 | 114.1996955 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:29 | 5.5 | 17 | 22.3782425 | 114.1996992 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:30 | 5.1 | 22.1 | 22.3782395 | 114.1997117 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:55 | 4.6 | 7.5 | 22.37800317 | 114.2006877 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:56 | 5.1 | 12.6 | 22.37800317 | 114.2006877 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:57 | 5.5 | 18.1 | 22.37800117 | 114.200695 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:04:58 | 4.4 | 22.6 | 22.37799333 | 114.200713 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:06:25 | 5.4 | 6.9 | 22.37876417 | 114.204329 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:06:26 | 5.2 | 12.1 | 22.37876417 | 114.204329 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:06:27 | 4.1 | 16.2 | 22.378768 | 114.2043367 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:06:32 | 4.8 | 25.2 | 22.37889467 | 114.2044572 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:07:59 | 5.4 | 5.4 | 22.3813755 | 114.2026483 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:08:00 | 5.2 | 10.6 | 22.3813755 | 114.2026483 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:08:01 | 5.5 | 16.2 | 22.38136967 | 114.2026487 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:08:02 | 5.2 | 21.4 | 22.38137717 | 114.2026388 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:08:36 | 4.5 | 8.2 | 22.38299917 | 114.2016792 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:08:37 | 5.1 | 13.4 | 22.38299917 | 114.2016792 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:08:38 | 5.7 | 19.1 | 22.38300333 | 114.2016798 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:08:39 | 4.3 | 23.5 | 22.38302067 | 114.2016812 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:09:36 | 6.9 | 6.9 | 22.38625217 | 114.2026395 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:09:37 | 6.4 | 13.3 | 22.38625217 | 114.2026395 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:09:38 | 6.3 | 19.7 | 22.38625467 | 114.2026422 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:10:01 | 4.8 | 9.1 | 22.386709 | 114.2030617 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:10:02 | 5 | 14.2 | 22.38670917 | 114.2030618 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:10:03 | 5.8 | 20 | 22.38671467 | 114.2030672 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:10:57 | 6.1 | 6.1 | 22.38773467 | 114.204246 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:10:58 | 5.2 | 11.3 | 22.38773467 | 114.204246 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:10:59 | 5.5 | 16.8 | 22.38773483 | 114.2042462 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:11:53 | 5.3 | 6.8 | 22.38709883 | 114.205403 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:11:55 | 5.7 | 17.8 | 22.38709683 | 114.2054152 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:11:56 | 5 | 22.8 | 22.3870895 | 114.2054188 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:13:13 | 4.8 | 4.8 | 22.3859275 | 114.2066378 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:13:14 | 5.9 | 10.8 | 22.3859275 | 114.2066378 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:13:15 | 5.8 | 16.6 | 22.3859275 | 114.2066378 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:13:16 | 4.8 | 21.4 | 22.38592033 | 114.2066462 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:15:00 | 5.9 | 12.4 | 22.38334517 | 114.2099007 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:15:01 | 5.8 | 18.3 | 22.383345 | 114.2099008 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:16:25 | 4.7 | 11.7 | 22.383369 | 114.2139492 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:16:26 | 4.9 | 16.7 | 22.3833685 | 114.2139453 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:16:27 | 4.6 | 21.4 | 22.38336667 | 114.2139577 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:17:00 | 5.2 | 14.9 | 22.382906 | 114.2149963 |
| 76129 | | STD | 2018-07-26 | N281 | UW3919 | 82K | MEILAM | 2018-07-26 21:38:44 | 2018-07-26 21:40:00 | 2018-07-26 22:17:01 | 4.7 | 19.7 | 22.3828975 | 114.2150038 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:30:05 | 5.2 | 19.6 | 22.38200817 | 114.2178562 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:30:06 | 5.5 | 25.1 | 22.381992 | 114.2178372 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:30:07 | 4.3 | 29.5 | 22.38197717 | 114.2178062 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:31:06 | 6.1 | 12.7 | 22.38306967 | 114.2145795 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:31:07 | 5.7 | 18.5 | 22.383072 | 114.2145757 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:31:08 | 5 | 23.5 | 22.3830795 | 114.2145647 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:31:48 | 5.7 | 9.7 | 22.38293917 | 114.2117537 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:31:49 | 5.7 | 15.4 | 22.38293917 | 114.2117537 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:31:50 | 5.4 | 20.9 | 22.38293683 | 114.2117487 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:31:51 | 4 | 25 | 22.3829325 | 114.2117285 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:33:23 | 6.6 | 11.3 | 22.383079 | 114.2102958 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:33:25 | 4.2 | 21.7 | 22.38308133 | 114.2102923 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:37:57 | 5.2 | 23.4 | 22.41702483 | 114.2313665 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:38:43 | 6.3 | 13.6 | 22.41957633 | 114.2322803 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:38:44 | 6.6 | 20.2 | 22.41959083 | 114.2322818 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:38:45 | 5 | 25.2 | 22.41959083 | 114.2322818 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:38:46 | 4.1 | 29.4 | 22.41962117 | 114.2322843 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:40:49 | 5.5 | 9.7 | 22.42399467 | 114.2374728 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-26 21:38:44 | NULL | 2018-07-26 22:40:50 | 5.1 | 14.8 | 22.42400133 | 114.2374737 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:50:40 | 5.7 | 8.7 | 22.42396417 | 114.2380653 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:50:41 | 5.4 | 14.2 | 22.42395983 | 114.2380763 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:50:42 | 5.7 | 20 | 22.42395583 | 114.2380965 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:50:43 | 5 | 25 | 22.42394917 | 114.2381313 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:51:40 | 7.2 | 7.2 | 22.42510317 | 114.2399663 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:51:41 | 6.6 | 13.9 | 22.42511167 | 114.2399645 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:51:42 | 5.2 | 19.2 | 22.42512267 | 114.2399623 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:51:44 | 4.3 | 27.5 | 22.42519117 | 114.2399415 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:51:45 | 4.3 | 31.8 | 22.425244 | 114.2399255 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:52:17 | 5 | 7.2 | 22.42625217 | 114.239219 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:52:18 | 5 | 12.3 | 22.42625733 | 114.2392182 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:52:19 | 5 | 17.3 | 22.4262635 | 114.2392027 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:52:20 | 5.1 | 22.4 | 22.426269 | 114.2391727 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:54:03 | 6.7 | 6.7 | 22.42535167 | 114.2343258 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:54:04 | 5.9 | 12.6 | 22.42535117 | 114.2343232 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:54:05 | 6.1 | 18.8 | 22.42534983 | 114.2343125 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:54:06 | 4.3 | 23.1 | 22.4253455 | 114.2342837 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:56:05 | 6.6 | 11.7 | 22.4226255 | 114.227953 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:56:06 | 6 | 17.7 | 22.4226185 | 114.2279485 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:57:20 | 4.2 | 9 | 22.41803467 | 114.2307212 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:57:21 | 5 | 14 | 22.41803117 | 114.2307282 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:57:22 | 4.8 | 18.8 | 22.4180225 | 114.2307455 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:59:41 | 5.4 | 5.4 | 22.4067185 | 114.222447 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:59:42 | 5.6 | 11.1 | 22.40671833 | 114.222447 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:59:43 | 5.9 | 17.1 | 22.40671017 | 114.2224405 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-26 23:59:44 | 4.3 | 21.4 | 22.40668783 | 114.2224248 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:04:17 | 4.6 | 8.7 | 22.39139667 | 114.2063097 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:04:18 | 5.3 | 14 | 22.391391 | 114.206303 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:04:19 | 5.9 | 20 | 22.39137917 | 114.2062867 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:05:13 | 4.9 | 13.4 | 22.3885195 | 114.201852 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:05:14 | 5.4 | 18.8 | 22.38850933 | 114.2018347 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:05:15 | 4.4 | 23.3 | 22.38849267 | 114.2018105 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:06:42 | 4.4 | 6.2 | 22.38197133 | 114.1954902 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:06:43 | 4.9 | 11.2 | 22.38197133 | 114.1954905 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:06:44 | 5.1 | 16.4 | 22.381964 | 114.1954827 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:06:45 | 5.2 | 21.6 | 22.38194717 | 114.1954647 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:07:06 | 4.2 | 25.1 | 22.38075967 | 114.1944823 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:07:37 | 6 | 8.5 | 22.379236 | 114.1964685 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:07:38 | 6.2 | 14.8 | 22.3792335 | 114.196475 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:07:39 | 5.2 | 20 | 22.37922483 | 114.1964903 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:08:18 | 6 | 9.4 | 22.37810533 | 114.1961038 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:08:19 | 5.7 | 15.2 | 22.37810283 | 114.1961005 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:08:20 | 5.1 | 20.3 | 22.37809167 | 114.1960873 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:08:32 | 4.6 | 23.9 | 22.37775917 | 114.1956458 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:08:48 | 4.1 | 7.5 | 22.377399 | 114.1951932 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:08:49 | 5 | 12.6 | 22.37739783 | 114.1951892 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:08:50 | 5.5 | 18.2 | 22.37738883 | 114.195172 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:10:15 | 4.7 | 9 | 22.37585483 | 114.1928822 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:10:16 | 4.9 | 14 | 22.3758535 | 114.1928812 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:10:17 | 4.1 | 18.1 | 22.37584433 | 114.1928653 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:10:42 | 4.8 | 4.8 | 22.3755315 | 114.19211 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:10:43 | 4.2 | 9 | 22.37552917 | 114.1921042 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:10:44 | 4.9 | 14 | 22.3755255 | 114.1920947 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:10:45 | 5.6 | 19.6 | 22.37552133 | 114.192073 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:11:15 | 4.3 | 25.4 | 22.37599683 | 114.189648 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:11:37 | 4.8 | 11.8 | 22.37512417 | 114.1884658 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:11:38 | 5.3 | 17.1 | 22.37511667 | 114.1884535 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:11:39 | 4.7 | 21.8 | 22.37510317 | 114.1884307 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:13:12 | 4.6 | 18.3 | 22.37142983 | 114.1790917 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:13:13 | 4.8 | 23.2 | 22.37140467 | 114.1790725 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:14:24 | 5.7 | 9.6 | 22.36807767 | 114.1746735 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:14:25 | 6.1 | 15.8 | 22.368073 | 114.174672 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:14:26 | 4.9 | 20.7 | 22.36805717 | 114.1746613 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:15:29 | 5 | 10.9 | 22.364165 | 114.17197 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:15:31 | 4.7 | 21.1 | 22.36414417 | 114.1719403 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:16:26 | 4 | 24.4 | 22.3633565 | 114.1713705 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:17:07 | 4.7 | 12.3 | 22.3638225 | 114.17381 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:17:08 | 5.8 | 18.2 | 22.36383033 | 114.173822 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:17:09 | 5.2 | 23.4 | 22.363846 | 114.1738455 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:17:44 | 4.6 | 6.8 | 22.365381 | 114.1752123 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:17:45 | 5.6 | 12.4 | 22.36538383 | 114.1752137 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:17:46 | 6 | 18.5 | 22.3653915 | 114.1752257 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:17:47 | 5.2 | 23.7 | 22.36540967 | 114.1752457 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:18:34 | 4.1 | 8.2 | 22.3662985 | 114.1763798 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:18:35 | 4.9 | 13.2 | 22.36629783 | 114.1763827 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:19:24 | 5.5 | 10.6 | 22.36710367 | 114.1761848 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:19:25 | 5.4 | 16 | 22.36711817 | 114.1761803 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:20:23 | 5.1 | 10 | 22.36867017 | 114.1784975 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:20:24 | 5.5 | 15.6 | 22.3686745 | 114.1785075 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:20:25 | 5.5 | 21.1 | 22.36868333 | 114.1785287 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:20:56 | 5.3 | 5.3 | 22.36928267 | 114.1800617 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:20:57 | 5.4 | 10.8 | 22.36928267 | 114.180062 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:20:58 | 5.7 | 16.6 | 22.3692875 | 114.1800722 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:20:59 | 4.7 | 21.3 | 22.36929717 | 114.1800943 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:27:06 | 8.2 | 11.2 | 22.34021933 | 114.1794388 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:27:07 | 7.5 | 18.8 | 22.34021467 | 114.1794383 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:27:08 | 5.1 | 23.9 | 22.34019217 | 114.1794385 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:28:23 | 4.8 | 7.2 | 22.33431983 | 114.1790195 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:28:24 | 4.9 | 12.1 | 22.33431533 | 114.179019 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:28:25 | 5.4 | 17.6 | 22.334301 | 114.1790167 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:28:26 | 4.9 | 22.5 | 22.33427417 | 114.1790142 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:29:07 | 7.1 | 7.1 | 22.33273233 | 114.1788718 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:29:08 | 5.4 | 12.6 | 22.33272817 | 114.1788683 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:29:09 | 5.8 | 18.5 | 22.33271617 | 114.1788672 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:29:10 | 4.4 | 22.9 | 22.3326885 | 114.1788663 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:29:59 | 5.5 | 10.1 | 22.33052267 | 114.178733 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:30:01 | 5.3 | 21 | 22.3304985 | 114.1787308 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:31:53 | 4.8 | 6.2 | 22.32144733 | 114.1782883 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:31:54 | 5.1 | 11.3 | 22.32144567 | 114.178288 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:31:55 | 5.8 | 17.2 | 22.32143417 | 114.1782855 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:31:56 | 4.8 | 22 | 22.3214115 | 114.1782758 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:33:05 | 6 | 10.1 | 22.320836 | 114.1772962 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:33:06 | 5.8 | 15.9 | 22.320833 | 114.1772888 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:33:07 | 5.2 | 21.2 | 22.320818 | 114.1772748 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:34:02 | 4.5 | 7.5 | 22.31769567 | 114.1750132 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:34:03 | 5 | 12.5 | 22.3176925 | 114.1750108 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:34:04 | 5.6 | 18.2 | 22.31767983 | 114.1750017 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:34:05 | 4.9 | 23.1 | 22.31765717 | 114.1749848 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:34:49 | 5.6 | 10.4 | 22.31672133 | 114.1742132 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:34:50 | 6.1 | 16.6 | 22.31671283 | 114.174215 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:34:51 | 5.1 | 21.7 | 22.31668933 | 114.1742142 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:35:55 | 5.5 | 10.6 | 22.31399117 | 114.1721778 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:35:56 | 6 | 16.7 | 22.3139855 | 114.1721753 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:35:57 | 5 | 21.7 | 22.31396717 | 114.1721618 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:36:36 | 4.9 | 4.9 | 22.31298333 | 114.170891 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:36:37 | 5.9 | 10.9 | 22.31298333 | 114.170891 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:36:38 | 5.1 | 16 | 22.31298133 | 114.1708843 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:36:43 | 4.1 | 25.6 | 22.3128445 | 114.1707508 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:37:09 | 5.8 | 7.4 | 22.3119155 | 114.1710687 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:37:10 | 5.5 | 13 | 22.31191367 | 114.1710665 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:37:11 | 5.8 | 18.8 | 22.311901 | 114.1710588 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:37:12 | 4.3 | 23.2 | 22.31187567 | 114.1710665 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:38:27 | 4.9 | 6.3 | 22.306784 | 114.171429 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:38:28 | 4.9 | 11.3 | 22.30678217 | 114.171433 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:38:29 | 5.6 | 17 | 22.30677017 | 114.1714343 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:39:25 | 4.6 | 4.6 | 22.3060335 | 114.1714173 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:39:26 | 4.4 | 9 | 22.3060335 | 114.1714173 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:39:27 | 4.8 | 13.9 | 22.306026 | 114.1714168 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:40:09 | 5.3 | 6.4 | 22.3035595 | 114.1715765 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:40:10 | 5.3 | 11.7 | 22.30355433 | 114.1715797 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:40:11 | 5.7 | 17.5 | 22.30354033 | 114.1715798 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:40:12 | 4.2 | 21.8 | 22.3035105 | 114.1715713 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:41:27 | 6.6 | 12.2 | 22.299878 | 114.171978 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:41:28 | 6.6 | 18.8 | 22.29986983 | 114.1719745 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:41:29 | 4.6 | 23.5 | 22.299845 | 114.1719762 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:42:26 | 5.4 | 5.4 | 22.2981905 | 114.1721083 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:42:27 | 6.1 | 11.6 | 22.2981905 | 114.1721083 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:42:28 | 6.6 | 18.2 | 22.29818283 | 114.1721195 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:42:29 | 5.2 | 23.4 | 22.29815917 | 114.1721228 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:43:06 | 5.8 | 10.6 | 22.29656417 | 114.1721325 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:43:07 | 6.4 | 17 | 22.29655417 | 114.1721272 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:43:08 | 5.4 | 22.5 | 22.29652983 | 114.1721252 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:45:09 | 5.4 | 9.2 | 22.29920483 | 114.1756593 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:45:10 | 6.2 | 15.4 | 22.2992055 | 114.1756668 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:45:11 | 5.8 | 21.2 | 22.2992205 | 114.1756782 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:45:47 | 5.4 | 12.5 | 22.30002983 | 114.1759473 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:45:48 | 5.3 | 17.8 | 22.30004433 | 114.1759567 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:45:49 | 4.6 | 22.5 | 22.30006983 | 114.175972 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:46:29 | 5.3 | 7.8 | 22.30245233 | 114.1768125 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:46:31 | 5.7 | 19.1 | 22.3024755 | 114.1768408 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-26 23:45:19 | 2018-07-26 23:50:00 | 2018-07-27 00:46:32 | 4.3 | 23.4 | 22.30250333 | 114.1768562 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 01:19:08 | NULL | 2018-07-27 01:19:36 | 4.4 | 11.2 | 22.30383483 | 114.1820342 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 01:19:08 | NULL | 2018-07-27 01:19:37 | 4.3 | 15.5 | 22.3038335 | 114.182043 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 01:19:08 | NULL | 2018-07-27 01:19:38 | 4 | 19.6 | 22.303832 | 114.1820627 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 01:19:08 | NULL | 2018-07-27 01:19:56 | 4.4 | 18.7 | 22.3037005 | 114.1828838 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 01:19:08 | NULL | 2018-07-27 01:19:57 | 4.4 | 23.2 | 22.3036695 | 114.1828993 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:21:37 | 7.1 | 10.9 | 22.30248267 | 114.1782992 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:21:38 | 7.2 | 18.1 | 22.30248983 | 114.178277 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:21:39 | 4.8 | 22.9 | 22.30249983 | 114.1782485 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:22:31 | 4.3 | 20.8 | 22.2994455 | 114.175943 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:23:01 | 5.7 | 17.5 | 22.29856817 | 114.1758155 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:23:02 | 5.2 | 22.7 | 22.29854083 | 114.1758082 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:23:41 | 4.8 | 18.5 | 22.29564817 | 114.1752528 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:23:42 | 4.2 | 22.8 | 22.295618 | 114.175246 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:24:45 | 4.1 | 11.7 | 22.29527533 | 114.1722972 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:24:46 | 4.2 | 16 | 22.29529067 | 114.1722983 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:24:47 | 4.9 | 21 | 22.295316 | 114.1723002 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:25:08 | 5.2 | 5.2 | 22.2962305 | 114.1723328 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:25:09 | 5.7 | 11 | 22.29623067 | 114.1723328 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:25:10 | 4 | 15 | 22.29624 | 114.1723303 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:25:49 | 4.3 | 10.6 | 22.29782333 | 114.1723757 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:26:10 | 5.7 | 13.3 | 22.29797983 | 114.172388 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:26:11 | 5.7 | 19 | 22.29799517 | 114.1723485 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:26:50 | 4.3 | 20 | 22.30041133 | 114.1720595 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:27:18 | 4.7 | 12.9 | 22.3018385 | 114.1718747 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:27:19 | 5.5 | 18.5 | 22.30185483 | 114.1718727 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:27:20 | 4.7 | 23.3 | 22.301883 | 114.171869 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:28:09 | 5.4 | 10.1 | 22.30299217 | 114.1717763 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:28:10 | 5.5 | 15.6 | 22.3029965 | 114.1717693 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:28:11 | 5 | 20.7 | 22.30301583 | 114.1717683 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:28:42 | 4.7 | 6.2 | 22.3042635 | 114.1717297 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:28:43 | 5.4 | 11.7 | 22.30426583 | 114.1717298 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:28:44 | 5.5 | 17.2 | 22.30427717 | 114.1717328 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:29:20 | 5.6 | 10 | 22.30474217 | 114.1717837 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:29:21 | 6.2 | 16.2 | 22.30474683 | 114.1717875 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:29:22 | 5.8 | 22.1 | 22.304766 | 114.1717897 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:30:03 | 4.9 | 23 | 22.30694417 | 114.1716052 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:30:26 | 5.9 | 8 | 22.30778633 | 114.1714835 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:30:27 | 6 | 14 | 22.30779033 | 114.1714852 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:30:28 | 5.1 | 19.1 | 22.30780517 | 114.1714835 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:30:59 | 4.2 | 8.2 | 22.309379 | 114.1712783 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:31:01 | 4.8 | 18.1 | 22.30940183 | 114.1712658 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:31:14 | 4.8 | 6.8 | 22.30974917 | 114.1711857 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:31:15 | 5.3 | 12.1 | 22.309754 | 114.1711842 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:31:16 | 6 | 18.1 | 22.30976917 | 114.1711813 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:31:17 | 4.5 | 22.7 | 22.309797 | 114.1711775 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:32:24 | 5 | 6.4 | 22.31418167 | 114.170609 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:32:25 | 4.3 | 10.7 | 22.31418467 | 114.170613 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:32:26 | 4.2 | 15 | 22.314196 | 114.1706118 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:32:27 | 4.9 | 19.9 | 22.31421883 | 114.170609 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:33:01 | 4.2 | 6.5 | 22.31592117 | 114.1702038 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:33:02 | 4.5 | 11 | 22.31592333 | 114.1702035 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:33:03 | 5.3 | 16.4 | 22.315936 | 114.1702072 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:33:04 | 4.7 | 21.1 | 22.31595883 | 114.1702042 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:33:44 | 4.8 | 11.1 | 22.31801183 | 114.1696798 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:33:45 | 5.5 | 16.6 | 22.31802417 | 114.1696795 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:33:46 | 4.9 | 21.5 | 22.31804717 | 114.1696742 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:34:43 | 5.1 | 7 | 22.31890183 | 114.1695103 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:37:17 | 6.1 | 6.1 | 22.32074333 | 114.1689657 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:37:18 | 6.1 | 12.2 | 22.32074333 | 114.1689658 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:37:19 | 6.1 | 18.4 | 22.320747 | 114.1689762 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:37:20 | 4.3 | 22.8 | 22.32075117 | 114.1690032 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:39:09 | 6.3 | 12.1 | 22.32100233 | 114.170421 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:39:10 | 4.8 | 17 | 22.321008 | 114.1704308 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:39:11 | 4.6 | 21.7 | 22.321015 | 114.1704535 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:40:25 | 4.6 | 10.3 | 22.32013083 | 114.1738238 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:40:26 | 5.1 | 15.4 | 22.320133 | 114.1738357 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:40:27 | 4.2 | 19.7 | 22.320142 | 114.1738577 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:41:58 | 5.5 | 5.5 | 22.3210515 | 114.1769565 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:41:59 | 5.6 | 11.2 | 22.3210515 | 114.1769565 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:42:01 | 4.1 | 21.3 | 22.321068 | 114.176984 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:43:39 | 4.3 | 4.3 | 22.33009517 | 114.1785768 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:43:40 | 5.5 | 9.8 | 22.33009517 | 114.1785768 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:43:41 | 5.5 | 15.4 | 22.330113 | 114.1785575 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:43:42 | 4.9 | 20.4 | 22.33013583 | 114.1785493 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:44:19 | 4.8 | 21.2 | 22.33238717 | 114.1787017 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:44:55 | 5.6 | 11.6 | 22.33396533 | 114.1788025 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:44:56 | 5.4 | 17 | 22.33397183 | 114.1788022 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:44:57 | 4.5 | 21.6 | 22.33399467 | 114.1788032 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:45:27 | 5.1 | 10.3 | 22.33590367 | 114.1788963 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:45:28 | 5.3 | 15.6 | 22.335912 | 114.1788983 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:45:29 | 4.1 | 19.8 | 22.3359325 | 114.1789043 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:46:21 | 5.8 | 9.4 | 22.33891383 | 114.1790705 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:46:22 | 6.1 | 15.5 | 22.33891717 | 114.1790707 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:46:23 | 4.9 | 20.4 | 22.33893567 | 114.1790715 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:52:49 | 4.8 | 7.1 | 22.3684765 | 114.1780947 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:52:50 | 4.1 | 11.2 | 22.3684735 | 114.1780902 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:52:51 | 5.2 | 16.5 | 22.3684675 | 114.1780783 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:52:52 | 4.3 | 20.8 | 22.368457 | 114.1780547 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:53:40 | 4.9 | 10.2 | 22.36751683 | 114.1765003 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:53:41 | 4.4 | 14.6 | 22.36750983 | 114.1764933 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:53:52 | 4.3 | 18.5 | 22.367264 | 114.1762303 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:55:02 | 5.4 | 11.8 | 22.36648 | 114.1765688 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:55:03 | 5 | 16.9 | 22.36647133 | 114.1765753 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:55:38 | 5.1 | 5.1 | 22.36544867 | 114.175373 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:55:39 | 4.2 | 9.4 | 22.3654485 | 114.175373 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:55:40 | 4.8 | 14.2 | 22.36544333 | 114.1753658 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:55:41 | 5.2 | 19.4 | 22.36543267 | 114.1753485 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:56:36 | 5.9 | 15.1 | 22.36288117 | 114.17247 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:56:37 | 5.7 | 20.8 | 22.3628805 | 114.1724502 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:56:38 | 4 | 24.8 | 22.36287917 | 114.1724153 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:57:32 | 4.3 | 6.6 | 22.36336233 | 114.171377 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:57:33 | 4.1 | 10.8 | 22.36336167 | 114.1713785 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:57:34 | 4.4 | 15.2 | 22.36336917 | 114.1713667 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:58:34 | 5.1 | 5.1 | 22.36749733 | 114.174298 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:58:35 | 4.7 | 9.8 | 22.36749733 | 114.174298 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:58:36 | 5.5 | 15.4 | 22.36750533 | 114.1743002 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 01:58:37 | 4.9 | 20.3 | 22.3675245 | 114.1743072 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:00:15 | 4.9 | 6.2 | 22.37264 | 114.1804285 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:00:16 | 4.6 | 10.9 | 22.3726455 | 114.1804353 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:00:17 | 5.6 | 16.5 | 22.3726515 | 114.1804457 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:00:18 | 5 | 21.6 | 22.37266233 | 114.180468 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:01:21 | 4.5 | 9.7 | 22.37451967 | 114.1851295 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:01:22 | 5 | 14.8 | 22.3745185 | 114.1851372 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:01:23 | 5.3 | 20.2 | 22.374515 | 114.18516 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:01:52 | 4.3 | 6.6 | 22.37447467 | 114.1864755 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:01:53 | 4.7 | 11.4 | 22.37447667 | 114.1864793 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:01:54 | 4.8 | 16.2 | 22.3744775 | 114.1864918 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:01:55 | 5.5 | 21.7 | 22.37447617 | 114.1865167 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:02:18 | 4.7 | 15.4 | 22.37496883 | 114.1879495 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:02:19 | 5.2 | 20.7 | 22.37497933 | 114.1879708 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:03:20 | 4.5 | 7.5 | 22.37608433 | 114.1895863 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:03:21 | 4.7 | 12.3 | 22.3760875 | 114.1895895 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:04:13 | 4.9 | 7.9 | 22.3759375 | 114.19248 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:04:14 | 4.4 | 12.3 | 22.375934 | 114.1924815 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:04:49 | 4.4 | 7.5 | 22.37653267 | 114.1938095 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:04:50 | 5.4 | 13 | 22.37653517 | 114.193813 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:04:51 | 5.8 | 18.9 | 22.37654433 | 114.1938258 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:04:52 | 4.2 | 23.1 | 22.37656083 | 114.1938503 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:05:20 | 4.1 | 6.6 | 22.37761 | 114.1952448 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:05:21 | 4.7 | 11.3 | 22.37761283 | 114.19525 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:05:22 | 5.5 | 16.9 | 22.377619 | 114.1952623 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:05:23 | 4.6 | 21.5 | 22.37763067 | 114.195285 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:06:33 | 4.9 | 9.7 | 22.38071283 | 114.1944418 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:06:34 | 5.7 | 15.4 | 22.38072083 | 114.1944357 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:06:35 | 4.8 | 20.3 | 22.38073633 | 114.194417 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:07:15 | 4.3 | 10.5 | 22.382506 | 114.1956842 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:07:16 | 5.1 | 15.7 | 22.38251483 | 114.1956942 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:07:17 | 5.3 | 21 | 22.38252917 | 114.195712 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:07:37 | 6.2 | 7.5 | 22.38300817 | 114.1962038 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:07:38 | 5.8 | 13.3 | 22.3830105 | 114.196207 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:07:39 | 6.8 | 20.2 | 22.38302 | 114.196216 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:08:20 | 4.9 | 8.6 | 22.38498633 | 114.198087 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:08:21 | 4.6 | 13.2 | 22.38499183 | 114.1980915 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:08:22 | 6 | 19.3 | 22.38500317 | 114.1981058 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:08:23 | 4.3 | 23.6 | 22.38502 | 114.1981322 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:09:10 | 5.4 | 9.6 | 22.38693967 | 114.2000458 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:09:11 | 6.1 | 15.7 | 22.38694417 | 114.2000507 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:09:12 | 5.1 | 20.8 | 22.386958 | 114.2000623 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:10:08 | 5.6 | 5.6 | 22.38924117 | 114.202741 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:10:09 | 6.2 | 11.8 | 22.38924117 | 114.202741 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:10:10 | 5.9 | 17.8 | 22.3892435 | 114.2027497 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:10:11 | 4.8 | 22.6 | 22.38925083 | 114.2027748 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:13:57 | 4.6 | 4.6 | 22.40615967 | 114.2218972 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:13:58 | 5 | 9.6 | 22.40615967 | 114.2218972 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:13:59 | 5.3 | 14.9 | 22.4061665 | 114.2219012 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:15:07 | 4.3 | 5.5 | 22.40641417 | 114.2220625 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:15:08 | 5.4 | 10.9 | 22.40641383 | 114.222063 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:15:09 | 5.4 | 16.4 | 22.40642167 | 114.222068 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:16:05 | 4.3 | 7.9 | 22.40542783 | 114.2240267 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:16:06 | 5.1 | 13 | 22.40542583 | 114.2240243 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:16:07 | 5.2 | 18.3 | 22.40541733 | 114.2240112 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:16:54 | 4.6 | 10.2 | 22.40636517 | 114.2224522 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:16:55 | 5.4 | 15.6 | 22.40637183 | 114.2224427 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:16:56 | 5.4 | 21.1 | 22.40638517 | 114.2224235 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:19:32 | 4.1 | 28.7 | 22.41810033 | 114.2303462 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:20:57 | 4.2 | 8.2 | 22.42342667 | 114.2281817 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:20:58 | 5 | 13.3 | 22.423436 | 114.2281852 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:20:59 | 5.8 | 19.2 | 22.423451 | 114.2281988 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:22:24 | 5.7 | 5.7 | 22.42417317 | 114.2292082 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:22:25 | 7.4 | 13.2 | 22.42417317 | 114.2292082 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:22:26 | 5.7 | 18.9 | 22.42416617 | 114.2292085 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:22:27 | 4.7 | 23.6 | 22.42417083 | 114.2292262 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:23:18 | 5.2 | 7.3 | 22.42486283 | 114.2318115 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:23:19 | 5.3 | 12.7 | 22.4248645 | 114.2318142 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:23:20 | 5.8 | 18.5 | 22.42486817 | 114.2318288 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:23:21 | 4.9 | 23.5 | 22.42487433 | 114.2318572 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:24:03 | 5.4 | 5.4 | 22.42536267 | 114.2336988 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:24:04 | 4.8 | 10.2 | 22.42536417 | 114.2337 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:24:05 | 5.5 | 15.8 | 22.42536717 | 114.23371 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:24:06 | 4.1 | 19.9 | 22.42537617 | 114.2337325 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:25:25 | 4.5 | 14.1 | 22.42586733 | 114.239852 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:26:01 | 4.9 | 14.7 | 22.42558133 | 114.2399942 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | HH.STN | 2018-07-27 01:19:08 | 2018-07-27 01:20:00 | 2018-07-27 02:26:02 | 4.5 | 19.3 | 22.4255615 | 114.240004 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 01:19:08 | NULL | 2018-07-27 02:29:40 | 4 | 9.4 | 22.4233375 | 114.237219 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:00:14 | 4 | 10.9 | 22.4235865 | 114.2373155 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:01:48 | 6.6 | 9.2 | 22.42519683 | 114.2399453 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:01:49 | 6.4 | 15.7 | 22.42519883 | 114.2399445 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:01:50 | 5.4 | 21.1 | 22.42521583 | 114.2399383 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:01:51 | 4.6 | 25.8 | 22.42524783 | 114.2399293 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:01:52 | 4.7 | 30.5 | 22.42529367 | 114.239915 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:03:06 | 4.3 | 8.8 | 22.425322 | 114.2343453 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:03:08 | 5.9 | 18.7 | 22.425316 | 114.234317 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:03:09 | 4.6 | 23.3 | 22.42530967 | 114.2342862 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:03:53 | 4 | 10.5 | 22.42431083 | 114.2315087 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:03:54 | 4.7 | 15.2 | 22.42430817 | 114.231496 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:05:03 | 4.1 | 7.8 | 22.4240555 | 114.2298783 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:05:04 | 5.1 | 13 | 22.424051 | 114.2298733 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:05:05 | 5.3 | 18.3 | 22.42404033 | 114.2298573 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:05:06 | 4.2 | 22.5 | 22.42402883 | 114.2298282 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:06:21 | 5.7 | 8.6 | 22.42251417 | 114.2279905 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:06:22 | 5.2 | 13.9 | 22.42251083 | 114.2279885 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:06:27 | 4.3 | 25.7 | 22.42232967 | 114.227989 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:06:59 | 4.4 | 19.2 | 22.4202235 | 114.2295902 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:07:46 | 4.3 | 11.6 | 22.4181115 | 114.2306533 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:07:47 | 5 | 16.6 | 22.4181045 | 114.2306667 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:10:43 | 4.8 | 6.4 | 22.40669167 | 114.2224445 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:10:44 | 5.3 | 11.8 | 22.40667933 | 114.222437 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:10:45 | 5.3 | 17.2 | 22.40666667 | 114.2224297 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:11:34 | 4.6 | 7.1 | 22.405376 | 114.2238997 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:11:35 | 5.1 | 12.2 | 22.40537383 | 114.2238957 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:11:36 | 5.3 | 17.6 | 22.40536617 | 114.2238833 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:15:06 | 4.7 | 4.7 | 22.3928665 | 114.207725 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:15:07 | 6.1 | 10.9 | 22.3928665 | 114.207725 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:15:08 | 5.5 | 16.5 | 22.39286067 | 114.2077198 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:15:09 | 5.9 | 22.4 | 22.39284483 | 114.2077057 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:15:57 | 5.6 | 7.1 | 22.390901 | 114.2058008 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:15:58 | 6.1 | 13.2 | 22.39090117 | 114.2057963 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:15:59 | 6 | 19.3 | 22.39089367 | 114.205786 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:16:53 | 4.5 | 5.6 | 22.38850567 | 114.2018438 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:16:55 | 5.5 | 16.2 | 22.38849983 | 114.2018337 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:16:56 | 5 | 21.2 | 22.38848933 | 114.2018142 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:17:27 | 5.7 | 11.6 | 22.38718783 | 114.2004912 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:17:28 | 6.1 | 17.7 | 22.38718283 | 114.2004833 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:17:29 | 4.6 | 22.3 | 22.387166 | 114.200466 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:18:41 | 4.7 | 6.7 | 22.38196917 | 114.1954675 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:18:42 | 5.1 | 11.8 | 22.38196517 | 114.1954662 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:18:43 | 5.6 | 17.4 | 22.38195567 | 114.1954577 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:18:44 | 4.9 | 22.4 | 22.38193783 | 114.195439 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:19:36 | 6 | 10.4 | 22.379188 | 114.196484 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:19:37 | 6.5 | 17 | 22.379182 | 114.1964927 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:20:13 | 5 | 8.8 | 22.37793 | 114.1958762 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:20:14 | 6.1 | 14.9 | 22.37792783 | 114.195874 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:20:15 | 6.1 | 21 | 22.37791767 | 114.1958597 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:20:37 | 5 | 11.4 | 22.3774065 | 114.1951833 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:20:38 | 5.6 | 17 | 22.37740067 | 114.1951715 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:20:39 | 4.9 | 22 | 22.37738917 | 114.195149 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:22:12 | 6.5 | 12.1 | 22.375917 | 114.1898893 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:22:13 | 5.5 | 17.6 | 22.3759225 | 114.1898815 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:22:56 | 5.7 | 11.7 | 22.3751565 | 114.1885417 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:22:57 | 6.3 | 18.1 | 22.37514933 | 114.1885292 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:22:58 | 4.4 | 22.6 | 22.37513533 | 114.1885055 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:23:31 | 4.4 | 9.7 | 22.37434833 | 114.1870963 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:23:32 | 6.4 | 16.1 | 22.374346 | 114.1870865 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:23:33 | 4.6 | 20.7 | 22.37434133 | 114.187065 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:24:33 | 7.2 | 10.5 | 22.374258 | 114.1857697 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:24:34 | 6.6 | 17.2 | 22.3742595 | 114.1857612 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:24:35 | 4.5 | 21.7 | 22.3742635 | 114.1857383 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:25:40 | 4.5 | 6.8 | 22.3721375 | 114.1801433 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:25:41 | 5.1 | 11.9 | 22.37213617 | 114.1801392 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:25:42 | 5.8 | 17.8 | 22.37213033 | 114.1801277 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:25:43 | 5 | 22.8 | 22.37212017 | 114.1801022 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:26:54 | 4.6 | 9.7 | 22.368496 | 114.1750662 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:26:55 | 5.4 | 15.1 | 22.36848983 | 114.1750612 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:26:56 | 5.2 | 20.3 | 22.36847383 | 114.1750485 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:28:38 | 5.4 | 12.8 | 22.36385533 | 114.1738797 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:28:39 | 6.2 | 19.1 | 22.363866 | 114.1738918 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:28:40 | 4.1 | 23.3 | 22.363883 | 114.1739203 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:29:10 | 4.1 | 7.3 | 22.36534933 | 114.175241 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:29:11 | 5.2 | 12.6 | 22.36535333 | 114.1752448 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:29:12 | 5.8 | 18.4 | 22.36536433 | 114.1752545 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:29:13 | 5.2 | 23.7 | 22.36538467 | 114.1752732 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:29:28 | 5.6 | 19.2 | 22.36628117 | 114.1763483 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:30:03 | 6.4 | 13.2 | 22.367159 | 114.1762122 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:30:04 | 5.8 | 19 | 22.3671705 | 114.1762063 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:30:47 | 4.6 | 6.3 | 22.368695 | 114.178481 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:30:48 | 5.1 | 11.5 | 22.36869883 | 114.1784847 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:30:49 | 5.6 | 17.1 | 22.36870517 | 114.1784962 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:30:50 | 5.4 | 22.6 | 22.3687155 | 114.1785193 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:31:22 | 5.3 | 13 | 22.36931133 | 114.1800182 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:31:23 | 6.1 | 19.1 | 22.36931617 | 114.1800307 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:37:36 | 8 | 14.4 | 22.34019733 | 114.1794077 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:37:37 | 6.2 | 20.7 | 22.34016867 | 114.1794002 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:37:38 | 4.6 | 25.4 | 22.34012967 | 114.1793938 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:38:39 | 6.5 | 7.6 | 22.33931117 | 114.1793143 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:38:40 | 5.9 | 13.5 | 22.33930867 | 114.1793143 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:38:41 | 5.7 | 19.3 | 22.33929383 | 114.1793133 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:38:42 | 4.7 | 24.1 | 22.339264 | 114.1793113 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:39:37 | 5.8 | 5.8 | 22.3342665 | 114.178954 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:39:38 | 5.8 | 11.7 | 22.33426633 | 114.1789538 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:39:39 | 5.6 | 17.3 | 22.3342535 | 114.1789532 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:39:40 | 5.1 | 22.4 | 22.33422683 | 114.178952 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:40:23 | 5.5 | 9.2 | 22.332808 | 114.1789037 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:40:24 | 4.6 | 13.8 | 22.332802 | 114.178903 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:40:25 | 5.7 | 19.6 | 22.33278367 | 114.1789032 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:40:56 | 4.3 | 7 | 22.33123533 | 114.1788215 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:40:57 | 5.1 | 12.2 | 22.3312335 | 114.1788213 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:40:58 | 5.4 | 17.6 | 22.33122017 | 114.1788173 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:40:59 | 4.7 | 22.3 | 22.33119433 | 114.1788092 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:41:13 | 5.5 | 5.5 | 22.33059967 | 114.1787398 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:41:14 | 6.5 | 12 | 22.33059967 | 114.1787398 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:41:15 | 5.9 | 17.9 | 22.330592 | 114.1787388 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:41:16 | 4.7 | 22.7 | 22.33056683 | 114.1787375 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:42:56 | 5.1 | 10.4 | 22.32177633 | 114.1781725 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:42:57 | 5.2 | 15.6 | 22.3217685 | 114.1781762 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:42:58 | 5 | 20.7 | 22.32174733 | 114.1781858 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:43:28 | 8.1 | 8.1 | 22.32137833 | 114.1782437 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:43:29 | 7.7 | 15.8 | 22.32137783 | 114.1782433 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:43:31 | 4.7 | 25.7 | 22.3213445 | 114.1782058 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:44:46 | 6.5 | 6.5 | 22.320772 | 114.177334 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:44:47 | 6.1 | 12.7 | 22.320772 | 114.177334 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:44:48 | 5.4 | 18.1 | 22.320771 | 114.1773293 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:44:49 | 4.8 | 22.9 | 22.320754 | 114.1773118 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:45:40 | 4.8 | 9.2 | 22.31767417 | 114.1749442 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:45:41 | 5.5 | 14.8 | 22.31766917 | 114.1749373 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:45:42 | 5.6 | 20.4 | 22.317655 | 114.1749227 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:46:27 | 5.5 | 5.5 | 22.31661533 | 114.1741263 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:46:28 | 6.4 | 11.9 | 22.31661533 | 114.1741263 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:46:29 | 6.3 | 18.2 | 22.31660883 | 114.1741233 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:47:17 | 4.9 | 10.1 | 22.314393 | 114.1724643 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:47:18 | 4.2 | 14.3 | 22.31438683 | 114.1724588 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:47:37 | 5.7 | 12.3 | 22.31404417 | 114.172193 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:47:38 | 6.2 | 18.5 | 22.3140345 | 114.1721855 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:47:39 | 4.7 | 23.3 | 22.31401283 | 114.1721702 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:48:02 | 4.3 | 7.1 | 22.31338167 | 114.1716962 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:48:03 | 5.1 | 12.3 | 22.31337867 | 114.1716935 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:48:04 | 5.7 | 18 | 22.31336767 | 114.1716837 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:48:05 | 4.6 | 22.6 | 22.31334667 | 114.1716667 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:48:48 | 5.1 | 5.1 | 22.31222183 | 114.1708865 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:48:56 | 4.5 | 21.1 | 22.31207633 | 114.1709315 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:50:01 | 4.7 | 10.9 | 22.30671317 | 114.1715948 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:50:02 | 5.5 | 16.5 | 22.3066895 | 114.1715812 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:50:03 | 4.4 | 20.9 | 22.3066605 | 114.1715638 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:51:25 | 5 | 25.3 | 22.29961217 | 114.17202 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:52:07 | 5.2 | 10.1 | 22.296591 | 114.172175 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:52:08 | 5.8 | 16 | 22.29658233 | 114.1721713 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:52:09 | 5.5 | 21.5 | 22.29656083 | 114.1721667 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:54:11 | 5.6 | 9.1 | 22.29914717 | 114.1756902 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:54:12 | 5.1 | 14.2 | 22.29915233 | 114.1756943 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:54:13 | 5.8 | 20.1 | 22.29917067 | 114.1756972 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:54:41 | 5 | 10.9 | 22.300267 | 114.1760173 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:54:42 | 5.9 | 16.9 | 22.30027883 | 114.1760222 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:54:43 | 4.9 | 21.9 | 22.30030383 | 114.1760318 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:55:26 | 8 | 9.4 | 22.30263267 | 114.1768825 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:55:27 | 7.2 | 16.7 | 22.30263833 | 114.1768888 |
| 76129 | | STD | 2018-07-27 | N281 | UW3919 | N281 | KAMYNG | 2018-07-27 02:59:44 | 2018-07-27 03:00:00 | 2018-07-27 03:55:28 | 4.4 | 21.1 | 22.30265167 | 114.1769038 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:11:20 | 4.2 | 6.6 | 22.303803 | 114.1825037 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:12:25 | 5.6 | 11.5 | 22.30209717 | 114.1836307 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:12:26 | 5.6 | 17.2 | 22.30209567 | 114.1836417 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:16:39 | 5.1 | 10.6 | 22.3300135 | 114.1785947 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:16:40 | 5.1 | 15.8 | 22.33002317 | 114.1785952 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:16:41 | 4.2 | 20 | 22.33005867 | 114.1785932 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:17:16 | 5.6 | 11.3 | 22.33228533 | 114.1787305 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:17:17 | 5.1 | 16.4 | 22.3322955 | 114.178731 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:17:18 | 5 | 21.4 | 22.33231917 | 114.1787327 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:17:55 | 4.3 | 8.3 | 22.333768 | 114.1788237 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:17:56 | 4.4 | 12.8 | 22.333776 | 114.1788242 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:17:57 | 5.7 | 18.6 | 22.3337895 | 114.1788255 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:17:58 | 4.5 | 23.1 | 22.333816 | 114.1788265 |
| 76129 | | STD | NULL | NULL | UW3919 | NULL | NULL | 2018-07-27 02:59:44 | NULL | 2018-07-27 04:27:08 | 4.7 | 20.7 | 22.38360417 | 114.2073202 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 20:49:10 | NULL | 2018-07-27 20:51:38 | 6.1 | 17.7 | 22.3839705 | 114.2082595 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 20:49:10 | NULL | 2018-07-27 20:51:39 | 4.1 | 21.9 | 22.3839935 | 114.2082852 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:56:16 | 5 | 19.6 | 22.3819805 | 114.217871 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:56:17 | 6 | 25.6 | 22.38196167 | 114.2178442 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:56:19 | 4.3 | 33.9 | 22.38192533 | 114.2177542 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:57:08 | 5.9 | 8.7 | 22.382871 | 114.2148657 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:57:09 | 6.5 | 15.3 | 22.382871 | 114.2148657 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:57:10 | 4.6 | 19.9 | 22.38287883 | 114.2148572 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:57:54 | 6.5 | 15.9 | 22.383104 | 114.2144213 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:57:56 | 4.5 | 26.5 | 22.38311967 | 114.2143797 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:57:58 | 4 | 34.3 | 22.3831505 | 114.214273 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:58:39 | 6.7 | 13.5 | 22.3829055 | 114.2117188 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:58:40 | 6.5 | 20.1 | 22.382904 | 114.2117088 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:58:41 | 5.1 | 25.2 | 22.38290083 | 114.211683 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:59:33 | 5.1 | 13.1 | 22.3838285 | 114.2088508 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:59:34 | 5.4 | 18.5 | 22.38383583 | 114.2088393 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 20:59:35 | 4.2 | 22.8 | 22.383851 | 114.2088197 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:00:52 | 5.6 | 10.2 | 22.385132 | 114.2073413 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:00:53 | 4.4 | 14.7 | 22.38513767 | 114.2073382 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:01:39 | 5 | 11.3 | 22.3861415 | 114.2061752 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:01:40 | 4.4 | 15.7 | 22.386148 | 114.2061667 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:01:41 | 4.4 | 20.2 | 22.38616067 | 114.2061495 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:01:53 | 4.5 | 7.1 | 22.3863275 | 114.2059763 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:01:54 | 5 | 12.2 | 22.386329 | 114.2059752 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:01:56 | 4.1 | 22.6 | 22.38635567 | 114.2059538 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:02:18 | 4.7 | 19.9 | 22.38742717 | 114.2047973 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:02:19 | 4.4 | 24.3 | 22.3874495 | 114.2047727 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:02:56 | 4.3 | 22.1 | 22.386905 | 114.2037907 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:03:28 | 4.8 | 9.4 | 22.386553 | 114.2033092 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:03:29 | 5.6 | 15 | 22.3865455 | 114.2032975 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:03:30 | 4.9 | 19.9 | 22.38653417 | 114.2032857 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:04:26 | 6.4 | 12.1 | 22.383395 | 114.201807 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:04:27 | 6.4 | 18.5 | 22.38338867 | 114.2018103 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:05:46 | 6 | 10.7 | 22.3818335 | 114.2024185 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:05:47 | 6.9 | 17.6 | 22.38183933 | 114.202408 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:05:48 | 4.7 | 22.3 | 22.381823 | 114.2024198 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:06:24 | 6 | 11.5 | 22.380651 | 114.2033087 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:06:58 | 4.7 | 9.8 | 22.37981933 | 114.2039945 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:06:59 | 5.4 | 15.3 | 22.37981183 | 114.204 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:07:00 | 4.7 | 20 | 22.379794 | 114.2040108 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:08:02 | 5.3 | 11.1 | 22.3790615 | 114.2045063 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:08:03 | 6.4 | 17.5 | 22.37905483 | 114.2045123 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:08:04 | 4.3 | 21.8 | 22.37903483 | 114.2045285 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:09:34 | 5.9 | 14.1 | 22.3779375 | 114.2001657 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:09:35 | 5 | 19.2 | 22.3779345 | 114.2001568 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:09:36 | 4.7 | 24 | 22.37793883 | 114.200128 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:10:19 | 5.4 | 11 | 22.37868183 | 114.197369 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:10:22 | 4.2 | 22.1 | 22.37870617 | 114.1973083 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:11:19 | 5.4 | 14.3 | 22.37809667 | 114.1961138 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:11:20 | 4.2 | 18.5 | 22.37808567 | 114.1961037 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:12:02 | 4.8 | 23.3 | 22.3772505 | 114.1950242 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:13:20 | 5.8 | 8.8 | 22.37596783 | 114.1930628 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:13:21 | 6 | 14.8 | 22.37596567 | 114.1930607 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:13:22 | 5 | 19.9 | 22.37595683 | 114.1930463 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:13:23 | 4.4 | 24.4 | 22.37594083 | 114.1930148 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:14:28 | 5 | 11.9 | 22.37558467 | 114.1905338 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:14:29 | 4.3 | 16.3 | 22.37557817 | 114.1905245 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:14:31 | 4.6 | 24.6 | 22.375565 | 114.1904553 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:15:31 | 6.2 | 16.5 | 22.37515117 | 114.1885337 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:15:32 | 5.2 | 21.8 | 22.37513767 | 114.1885112 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:15:57 | 4.5 | 22.9 | 22.37424933 | 114.1867147 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:16:47 | 6.3 | 13.1 | 22.374202 | 114.1858448 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:16:48 | 5.3 | 18.5 | 22.37420367 | 114.1858318 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:17:16 | 4.8 | 9.5 | 22.37335183 | 114.1855778 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:17:17 | 6.6 | 16.2 | 22.37334283 | 114.1855798 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:17:18 | 4.8 | 21 | 22.37332067 | 114.1855838 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:18:24 | 4.8 | 12.8 | 22.3701025 | 114.1855537 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:18:26 | 4.9 | 23.8 | 22.37014817 | 114.1855772 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:18:58 | 5.2 | 10.5 | 22.37095783 | 114.1861022 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:18:59 | 5.9 | 16.4 | 22.37097183 | 114.1861168 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:19:00 | 5 | 21.5 | 22.37099217 | 114.186144 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:19:36 | 5.4 | 12.7 | 22.3700165 | 114.1878233 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:19:37 | 5.9 | 18.7 | 22.370004 | 114.1878125 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:19:49 | 6 | 0 | 22.369465 | 114.1873985 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:20:05 | 4.9 | 7.2 | 22.36945033 | 114.1873865 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:20:06 | 5.7 | 13 | 22.3694495 | 114.1873858 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:20:07 | 6.9 | 19.9 | 22.36943567 | 114.1873772 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:20:08 | 4.9 | 24.8 | 22.36940667 | 114.187361 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:22:44 | 4.2 | 8.8 | 22.372152 | 114.1801962 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:22:45 | 4.5 | 13.3 | 22.37214667 | 114.1801863 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:22:48 | 4 | 24.9 | 22.372107 | 114.18009 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:23:13 | 5.4 | 13.1 | 22.3713865 | 114.1791063 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:23:14 | 6.1 | 19.2 | 22.371369 | 114.179097 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:23:15 | 4.2 | 23.5 | 22.37133867 | 114.1790823 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:24:08 | 6.4 | 10.8 | 22.36986883 | 114.1800535 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:24:09 | 4.1 | 14.9 | 22.36985767 | 114.1800607 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:25:15 | 5.7 | 11.5 | 22.36888533 | 114.17917 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:25:16 | 5.4 | 16.9 | 22.36888283 | 114.1791632 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:25:17 | 4.5 | 21.5 | 22.3688735 | 114.179139 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:25:49 | 4.4 | 6.6 | 22.3685245 | 114.1782495 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:25:50 | 4.7 | 11.4 | 22.36852167 | 114.178244 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:25:51 | 5 | 16.4 | 22.36851383 | 114.1782258 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:25:52 | 4.5 | 20.9 | 22.36850233 | 114.178196 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:26:21 | 4.9 | 17.2 | 22.36742233 | 114.1763322 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:26:22 | 5 | 22.2 | 22.36740583 | 114.176304 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:26:23 | 4.3 | 26.6 | 22.36738467 | 114.1762628 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:28:16 | 4 | 9.5 | 22.37328767 | 114.1771443 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:29:13 | 5.1 | 13 | 22.373945 | 114.1766697 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:29:14 | 6.4 | 19.5 | 22.37396317 | 114.1766548 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:29:45 | 5.2 | 14.2 | 22.37530067 | 114.1757738 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:29:46 | 5.7 | 19.9 | 22.37532217 | 114.1757622 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:30:21 | 5.4 | 6.9 | 22.37743 | 114.174519 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:30:22 | 4.9 | 11.9 | 22.377435 | 114.1745133 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | WN.TAU | 2018-07-27 20:49:10 | 2018-07-27 20:55:00 | 2018-07-27 21:30:23 | 4.5 | 16.4 | 22.37745183 | 114.1745018 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:40:53 | 5.1 | 10.2 | 22.3777425 | 114.174818 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:41:20 | 5.4 | 11 | 22.37676567 | 114.1750157 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:41:21 | 7.2 | 18.3 | 22.376753 | 114.1750228 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:41:22 | 4.4 | 22.7 | 22.3767275 | 114.1750373 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:41:23 | 4 | 26.8 | 22.37668717 | 114.1750592 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:42:05 | 4.5 | 10.2 | 22.37577317 | 114.1756417 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:42:06 | 5.9 | 16.1 | 22.37575933 | 114.1756498 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:42:07 | 4.8 | 20.9 | 22.37573567 | 114.175666 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:43:16 | 7.8 | 15.4 | 22.37176733 | 114.178639 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:43:17 | 5.8 | 21.2 | 22.37175483 | 114.1786572 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:45:10 | 5.4 | 12.2 | 22.36782017 | 114.1746147 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:45:11 | 5.1 | 17.4 | 22.36780567 | 114.1746028 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:45:16 | 4.8 | 28.2 | 22.367598 | 114.1746193 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:45:37 | 5.6 | 11.6 | 22.36727533 | 114.1757107 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:45:38 | 6.3 | 17.9 | 22.367276 | 114.175727 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:45:39 | 4.8 | 22.8 | 22.367276 | 114.175727 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:46:28 | 6.2 | 8.6 | 22.36865067 | 114.1783077 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:46:29 | 5.2 | 13.8 | 22.368651 | 114.1783185 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:46:57 | 4.6 | 10.1 | 22.36900567 | 114.1791178 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:46:58 | 6.5 | 16.6 | 22.36901083 | 114.1791332 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:46:59 | 4.9 | 21.5 | 22.36901867 | 114.1791612 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:47:15 | 4.4 | 15.6 | 22.3692785 | 114.1798003 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:48:08 | 7.3 | 7.3 | 22.37108267 | 114.1788742 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:48:09 | 6.5 | 13.9 | 22.37108583 | 114.1788663 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:48:10 | 5.8 | 19.8 | 22.3710955 | 114.1788457 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:49:02 | 5.7 | 11.6 | 22.3726185 | 114.1804577 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:49:03 | 5.9 | 17.6 | 22.3726275 | 114.1804732 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:49:04 | 6 | 23.6 | 22.37264217 | 114.1805027 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:50:37 | 4.6 | 18.4 | 22.374437 | 114.185284 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:50:57 | 5.9 | 21.1 | 22.3733265 | 114.1855833 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:52:01 | 5.1 | 13.9 | 22.37015883 | 114.1855587 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:52:02 | 5.9 | 19.8 | 22.3701805 | 114.1855677 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:52:34 | 5.7 | 12.9 | 22.3710005 | 114.1860903 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:52:35 | 5.6 | 18.6 | 22.37101433 | 114.1861057 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:52:36 | 4.1 | 22.7 | 22.37103583 | 114.186134 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:53:26 | 4.8 | 15.6 | 22.37001183 | 114.1877897 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:53:27 | 4.5 | 20.1 | 22.36999233 | 114.187769 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:56:29 | 5.6 | 8.6 | 22.374143 | 114.1853703 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:56:30 | 5.1 | 13.8 | 22.374153 | 114.1853718 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:56:31 | 6.3 | 20.1 | 22.3741765 | 114.185375 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:56:52 | 5.3 | 12.9 | 22.37443317 | 114.1864333 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:56:53 | 6 | 19 | 22.374433 | 114.1864567 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:56:54 | 4.7 | 23.7 | 22.374432 | 114.1864943 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:57:32 | 7.1 | 10.9 | 22.37487033 | 114.1878303 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:57:33 | 6.7 | 17.6 | 22.374875 | 114.1878427 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:57:34 | 4.9 | 22.6 | 22.37489 | 114.1878697 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:58:28 | 5 | 9.5 | 22.376068 | 114.1895665 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:58:29 | 4.9 | 14.5 | 22.37608117 | 114.189578 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:59:29 | 5 | 10.3 | 22.37613217 | 114.1915895 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:59:30 | 5.9 | 16.3 | 22.37613567 | 114.1916053 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:59:31 | 5.4 | 21.7 | 22.376145 | 114.1916332 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 21:59:49 | 5 | 19.1 | 22.3760225 | 114.1924283 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:00:28 | 5.5 | 7.1 | 22.37635833 | 114.1936378 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:00:29 | 4.6 | 11.7 | 22.376365 | 114.1936425 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:01:11 | 5.2 | 12.2 | 22.37732833 | 114.1948445 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:01:12 | 5.6 | 17.9 | 22.3773405 | 114.194864 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:01:13 | 4.2 | 22.2 | 22.37735983 | 114.1948948 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:02:16 | 4.3 | 8 | 22.37782133 | 114.1955923 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:02:17 | 5.3 | 13.4 | 22.37781567 | 114.1955855 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:02:18 | 6.1 | 19.5 | 22.37782733 | 114.1956012 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:04:00 | 5.1 | 26.1 | 22.37896817 | 114.204457 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:04:57 | 5.1 | 20.3 | 22.3812155 | 114.2027083 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:05:59 | 6.3 | 10.8 | 22.38450433 | 114.2019433 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:06:00 | 5.5 | 16.4 | 22.38451817 | 114.2019455 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:06:01 | 5.6 | 22.1 | 22.3845465 | 114.2019503 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:06:52 | 5.4 | 10.3 | 22.38615417 | 114.2026935 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:06:53 | 4.8 | 15.2 | 22.38615583 | 114.2027053 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:07:29 | 5.5 | 10.5 | 22.38659717 | 114.2031795 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:07:30 | 5.4 | 16 | 22.386607 | 114.2031907 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:07:31 | 5.5 | 21.6 | 22.38662483 | 114.2032132 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:09:13 | 6.3 | 15.8 | 22.3877105 | 114.2043713 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:09:14 | 4.3 | 20.1 | 22.387735 | 114.2043937 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:10:06 | 6.4 | 13.1 | 22.3870545 | 114.2054848 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:10:07 | 6.4 | 19.5 | 22.387041 | 114.205498 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:10:08 | 4.7 | 24.3 | 22.38701467 | 114.2055245 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:11:26 | 6.1 | 19.1 | 22.38581833 | 114.2067857 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:11:27 | 4.4 | 23.5 | 22.3857965 | 114.2068098 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:12:28 | 5.9 | 9.6 | 22.38334217 | 114.2099073 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:12:29 | 6.3 | 15.9 | 22.38333817 | 114.2099138 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:12:30 | 4.9 | 20.9 | 22.38332667 | 114.2099382 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:14:03 | 4.5 | 6.8 | 22.38336383 | 114.2139592 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:14:04 | 5.8 | 12.6 | 22.3833635 | 114.2139662 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:14:05 | 5.8 | 18.5 | 22.38336167 | 114.2139833 |
| 76129 | | STD | 2018-07-27 | N281 | UN 592 | 82K | MEILAM | 2018-07-27 21:38:14 | 2018-07-27 21:40:00 | 2018-07-27 22:14:06 | 4 | 22.6 | 22.3833575 | 114.2140172 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:21:23 | 6.2 | 18.4 | 22.38198017 | 114.217816 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:21:24 | 6.8 | 25.3 | 22.381963 | 114.2177885 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:21:26 | 4.6 | 35.6 | 22.38191383 | 114.2176833 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:21:27 | 4.3 | 39.9 | 22.38187667 | 114.2176077 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:22:09 | 7.3 | 13 | 22.38315067 | 114.2144025 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:22:10 | 6.2 | 19.2 | 22.38315733 | 114.214387 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:22:11 | 5.4 | 24.6 | 22.3831685 | 114.2143552 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:22:43 | 6.8 | 14 | 22.3829355 | 114.2117513 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:22:44 | 6.4 | 20.5 | 22.382931 | 114.2117292 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:22:45 | 5.1 | 25.6 | 22.38292583 | 114.2116885 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:29:54 | 6.4 | 11.8 | 22.42149883 | 114.2324398 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-27 21:38:14 | NULL | 2018-07-27 22:31:05 | 4.3 | 7.7 | 22.42400067 | 114.2375795 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:50:57 | 4 | 11 | 22.42397933 | 114.2376128 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:51:59 | 6.2 | 12.3 | 22.42502683 | 114.2399642 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:52:00 | 6.6 | 18.9 | 22.4250405 | 114.2399613 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:52:01 | 5.6 | 24.5 | 22.42507067 | 114.2399557 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:52:02 | 4 | 28.6 | 22.42511683 | 114.2399483 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:52:38 | 5.3 | 12.4 | 22.426205 | 114.2393248 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:52:39 | 5.3 | 17.8 | 22.42621717 | 114.2393115 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:54:22 | 4.9 | 9.3 | 22.4253615 | 114.2344827 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:54:23 | 5.7 | 15 | 22.42536 | 114.2344707 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:56:22 | 7.5 | 11.1 | 22.422565 | 114.2280242 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:56:23 | 5.6 | 16.7 | 22.42255683 | 114.2280188 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:56:24 | 4 | 20.7 | 22.42253383 | 114.2280047 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:57:31 | 4.8 | 15.6 | 22.41808033 | 114.2306738 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-27 23:57:32 | 4.7 | 20.3 | 22.418067 | 114.2306993 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:00:31 | 6 | 17.2 | 22.4053575 | 114.2238358 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:00:32 | 4.9 | 22.1 | 22.40534883 | 114.2238085 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:00:45 | 5.2 | 21.8 | 22.405388 | 114.2230325 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:01:59 | 6.8 | 11.4 | 22.40633017 | 114.2223605 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:04:05 | 5.4 | 11 | 22.39850933 | 114.2120682 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:04:06 | 6 | 17.1 | 22.39849783 | 114.2120575 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:04:07 | 4.9 | 22.1 | 22.3984765 | 114.2120373 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:05:55 | 5.7 | 10.2 | 22.39139317 | 114.2063232 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:05:56 | 4.8 | 15 | 22.39138667 | 114.2063142 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:08:14 | 5.1 | 13.5 | 22.38196617 | 114.1954852 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:08:15 | 5.4 | 19 | 22.3819505 | 114.1954698 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:08:16 | 4.8 | 23.9 | 22.381926 | 114.1954427 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:09:10 | 6.7 | 11.7 | 22.37922683 | 114.1964608 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:09:11 | 6.4 | 18.2 | 22.3792195 | 114.196472 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:09:12 | 4.4 | 22.6 | 22.37920217 | 114.1964987 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:09:48 | 6.7 | 15.5 | 22.377986 | 114.1959742 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:09:49 | 5.8 | 21.3 | 22.37797383 | 114.1959555 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:10:24 | 6 | 14.8 | 22.37665833 | 114.1940733 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:10:25 | 5.7 | 20.5 | 22.37664517 | 114.1940542 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:11:08 | 4.5 | 14.6 | 22.375465 | 114.191915 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:11:09 | 5.9 | 20.5 | 22.37545517 | 114.1918897 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:11:59 | 5.4 | 13.6 | 22.37589333 | 114.1899187 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:12:43 | 6.9 | 18.1 | 22.37520283 | 114.1885822 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:12:44 | 4 | 22.2 | 22.37518767 | 114.1885568 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:14:15 | 5.8 | 12.8 | 22.37213467 | 114.1801103 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:14:16 | 6.6 | 19.5 | 22.3721265 | 114.180092 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:14:17 | 4.1 | 23.6 | 22.37211333 | 114.1800595 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:16:06 | 5.1 | 10.6 | 22.36801933 | 114.1746418 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:16:07 | 5.5 | 16.1 | 22.36801 | 114.1746295 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:16:08 | 4.9 | 21.1 | 22.36798817 | 114.1746117 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:17:08 | 5 | 23.6 | 22.36339683 | 114.171344 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:17:52 | 5.1 | 8 | 22.3638775 | 114.1738098 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:17:53 | 5.8 | 13.9 | 22.36388033 | 114.1738152 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:17:54 | 6.6 | 20.5 | 22.36388983 | 114.173833 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:18:28 | 5.5 | 12.5 | 22.3653975 | 114.1751942 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:18:29 | 6.5 | 19 | 22.365409 | 114.1752093 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:19:26 | 6.1 | 11.4 | 22.36706733 | 114.1761795 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:19:27 | 5.6 | 17.1 | 22.36707883 | 114.1761763 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:19:28 | 4 | 21.2 | 22.36710533 | 114.1761668 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:20:09 | 6 | 10.2 | 22.3686525 | 114.1783785 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:20:10 | 6.4 | 16.7 | 22.368657 | 114.178391 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:20:11 | 4.9 | 21.6 | 22.36866783 | 114.1784175 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:20:33 | 4.9 | 9.4 | 22.368964 | 114.1790813 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:20:34 | 5.8 | 15.2 | 22.36896567 | 114.1790952 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:20:35 | 5.4 | 20.6 | 22.36896733 | 114.1791213 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:20:36 | 4.5 | 25.2 | 22.36897417 | 114.1791623 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:26:56 | 5.5 | 9.7 | 22.33931567 | 114.179329 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:26:57 | 6.2 | 15.9 | 22.33930483 | 114.179329 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:26:58 | 5.5 | 21.5 | 22.3392795 | 114.1793275 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:26:59 | 4.3 | 25.9 | 22.33923917 | 114.1793257 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:27:58 | 4.4 | 12.7 | 22.3332395 | 114.1789417 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:27:59 | 5 | 17.7 | 22.3332195 | 114.17894 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:29:01 | 4.3 | 7.5 | 22.3312885 | 114.1788323 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:29:02 | 4.9 | 12.5 | 22.331277 | 114.178829 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:29:03 | 5.8 | 18.3 | 22.33125533 | 114.1788238 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:29:04 | 5 | 23.4 | 22.3312215 | 114.1788145 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:31:31 | 4.6 | 18.4 | 22.32172383 | 114.1781425 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:32:02 | 4.9 | 16.3 | 22.32138767 | 114.178155 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:32:03 | 5.3 | 21.7 | 22.321366 | 114.1781333 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:32:04 | 4.3 | 26 | 22.32133817 | 114.1780892 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:33:20 | 6.4 | 14.1 | 22.32079617 | 114.1773235 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:33:21 | 5.6 | 19.7 | 22.32077983 | 114.177313 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:34:15 | 5 | 10.3 | 22.31770417 | 114.1750018 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:34:16 | 6.7 | 17.1 | 22.31769333 | 114.1749938 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:34:17 | 5.3 | 22.4 | 22.3176715 | 114.1749777 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:35:04 | 5.5 | 13.1 | 22.316709 | 114.1742673 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:35:05 | 6.4 | 19.5 | 22.31669533 | 114.1742547 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:35:06 | 4.1 | 23.6 | 22.31667417 | 114.1742265 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:36:10 | 5.6 | 11.1 | 22.31397467 | 114.1721855 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:36:11 | 6.5 | 17.6 | 22.31396483 | 114.1721783 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:36:12 | 5 | 22.6 | 22.31394233 | 114.1721617 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:36:34 | 4.8 | 8 | 22.31337583 | 114.1717358 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:36:35 | 5.5 | 13.6 | 22.3133705 | 114.1717283 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:36:36 | 5.8 | 19.4 | 22.31335483 | 114.1717148 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:36:37 | 4.4 | 23.9 | 22.31332767 | 114.1716927 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:37:28 | 5.4 | 12.5 | 22.31300867 | 114.1709617 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:38:01 | 5.6 | 20.8 | 22.312069 | 114.1710922 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:39:42 | 5.3 | 8.1 | 22.3034575 | 114.1718253 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:39:43 | 7.1 | 15.3 | 22.30345 | 114.1718262 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:39:44 | 4.9 | 20.3 | 22.3034275 | 114.1718242 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:40:58 | 7.2 | 11.7 | 22.29967333 | 114.1720057 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:40:59 | 7.5 | 19.2 | 22.29966083 | 114.1720103 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:41:55 | 5.5 | 10.8 | 22.2967405 | 114.1722255 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:41:56 | 4.5 | 15.4 | 22.29672633 | 114.1722242 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:41:57 | 5.7 | 21.1 | 22.29670033 | 114.1722255 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:41:58 | 4.5 | 25.6 | 22.2966615 | 114.1722285 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:42:25 | 5.2 | 9.3 | 22.29575717 | 114.1723455 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:42:26 | 6.2 | 15.6 | 22.29574717 | 114.1723562 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:42:27 | 5 | 20.6 | 22.295723 | 114.172353 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:43:31 | 6 | 13.5 | 22.295021 | 114.1724107 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:43:32 | 5.1 | 18.7 | 22.295001 | 114.1724135 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:44:42 | 5.9 | 12.6 | 22.2975625 | 114.175462 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:44:43 | 5.3 | 18 | 22.2975785 | 114.1754647 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:44:44 | 5.1 | 23.1 | 22.297608 | 114.1754692 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:45:29 | 5.1 | 11.4 | 22.29989067 | 114.1758687 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:45:31 | 5 | 22.5 | 22.29993133 | 114.1758945 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:46:41 | 6.1 | 8.7 | 22.302372 | 114.1767942 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:46:42 | 6.5 | 15.2 | 22.30237817 | 114.1767945 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:46:43 | 4.5 | 19.8 | 22.302398 | 114.1768027 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-27 23:49:49 | 2018-07-27 23:50:00 | 2018-07-28 00:46:57 | 4.1 | 26.4 | 22.30295667 | 114.1772733 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:20:07 | 4.6 | 13 | 22.3038275 | 114.1820183 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:20:08 | 4.8 | 17.9 | 22.30382583 | 114.1820402 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:20:09 | 4.6 | 22.6 | 22.30382183 | 114.1820738 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:21:47 | 7.7 | 18.4 | 22.3024925 | 114.1782677 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:21:48 | 5.7 | 24.2 | 22.30250117 | 114.178244 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:22:06 | 5.1 | 10.8 | 22.3027235 | 114.1775413 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:22:07 | 5.2 | 16 | 22.30272833 | 114.1775283 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:22:39 | 4.9 | 12.8 | 22.302762 | 114.1772523 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:22:40 | 5.8 | 18.7 | 22.30275567 | 114.1772327 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:22:41 | 4.1 | 22.8 | 22.30274333 | 114.1772005 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:23:10 | 4.7 | 8.1 | 22.30103417 | 114.1764823 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:23:11 | 5.4 | 13.6 | 22.30102483 | 114.1764793 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:23:12 | 5.1 | 18.7 | 22.30100533 | 114.1764702 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:23:25 | 5.8 | 12.9 | 22.300644 | 114.1763223 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:23:26 | 6.6 | 19.5 | 22.30062783 | 114.1763148 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:23:27 | 4.2 | 23.8 | 22.3005965 | 114.1763042 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:24:11 | 6.2 | 12.9 | 22.29949833 | 114.175965 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:24:12 | 5.7 | 18.6 | 22.299481 | 114.1759602 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:24:13 | 5.3 | 23.9 | 22.29944933 | 114.1759505 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:24:45 | 4.8 | 11 | 22.298589 | 114.1758145 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:24:46 | 6.2 | 17.3 | 22.298577 | 114.175809 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:24:47 | 5 | 22.4 | 22.29855033 | 114.1757992 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:25:22 | 6.3 | 12.3 | 22.29739167 | 114.1755485 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:25:23 | 6 | 18.4 | 22.29737567 | 114.1755528 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:25:24 | 4.8 | 23.2 | 22.29734633 | 114.1755475 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:26:09 | 4.8 | 25.4 | 22.29468133 | 114.1725302 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:26:31 | 5.3 | 13.2 | 22.29536433 | 114.172258 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:26:32 | 5.7 | 19 | 22.295384 | 114.1722602 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:26:33 | 4.3 | 23.3 | 22.29541667 | 114.1722642 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:26:54 | 5.5 | 10.6 | 22.29625067 | 114.1723198 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:26:55 | 6.1 | 16.8 | 22.29626267 | 114.1723205 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:26:56 | 5.2 | 22 | 22.296289 | 114.1723203 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:27:28 | 4.8 | 11 | 22.29781883 | 114.1724757 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:27:29 | 6.4 | 17.4 | 22.2978335 | 114.1724772 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:28:22 | 4.5 | 9.3 | 22.301847 | 114.1721108 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:28:23 | 6 | 15.3 | 22.3018595 | 114.1721093 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:28:24 | 5.4 | 20.8 | 22.3018815 | 114.1721055 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:29:12 | 7 | 12.6 | 22.3030765 | 114.1719513 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:29:13 | 6.1 | 18.8 | 22.30308967 | 114.171944 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:29:14 | 4.3 | 23.1 | 22.3031195 | 114.1719387 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:30:36 | 4.3 | 12 | 22.30487567 | 114.1718545 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:30:37 | 4.7 | 16.7 | 22.30489517 | 114.1718483 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:30:38 | 4.1 | 20.9 | 22.30492717 | 114.1718495 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:31:16 | 5.3 | 9.8 | 22.30686217 | 114.1716478 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:31:17 | 6 | 15.8 | 22.30687167 | 114.1716485 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:31:18 | 5.8 | 21.7 | 22.30689517 | 114.171649 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:32:01 | 5.9 | 16.6 | 22.30992217 | 114.1712667 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:33:11 | 5.3 | 14.4 | 22.31421467 | 114.1704713 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:33:56 | 4.5 | 10 | 22.3159235 | 114.1701112 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:33:57 | 5.6 | 15.7 | 22.3159375 | 114.1701118 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:33:58 | 5.1 | 20.8 | 22.3159635 | 114.1701103 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:34:45 | 4.2 | 8.2 | 22.318045 | 114.169794 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:34:46 | 5.2 | 13.4 | 22.318052 | 114.1697853 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:34:47 | 5.9 | 19.4 | 22.31807083 | 114.1697825 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:36:07 | 5.6 | 11 | 22.31893883 | 114.1695985 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:36:08 | 5.9 | 16.9 | 22.318952 | 114.1695957 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:36:09 | 4.1 | 21 | 22.318979 | 114.1695925 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:36:38 | 5.3 | 13.1 | 22.31911033 | 114.1685565 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:36:39 | 5.8 | 18.9 | 22.31910483 | 114.168535 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:38:54 | 6 | 10.3 | 22.320713 | 114.1689518 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:38:55 | 6.7 | 17 | 22.320714 | 114.168962 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:38:56 | 4.8 | 21.9 | 22.32071617 | 114.16899 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:39:31 | 5.5 | 13.4 | 22.32091233 | 114.1700962 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:39:32 | 5.9 | 19.3 | 22.32091717 | 114.1701175 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:43:53 | 4.7 | 20.4 | 22.31975983 | 114.1719157 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:44:26 | 5.3 | 12.1 | 22.3199055 | 114.1725332 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:44:27 | 6.3 | 18.5 | 22.31990983 | 114.1725515 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:44:28 | 4.2 | 22.7 | 22.3199165 | 114.172584 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:45:08 | 5.1 | 12.8 | 22.3206345 | 114.1757693 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:45:09 | 5.5 | 18.4 | 22.32063983 | 114.1757892 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:45:37 | 4.8 | 9.1 | 22.320999 | 114.1766957 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:45:38 | 6.2 | 15.4 | 22.32100217 | 114.1767063 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:45:39 | 4.9 | 20.3 | 22.32101067 | 114.1767297 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:48:03 | 4.5 | 11.3 | 22.33337417 | 114.1787853 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:50:10 | 5.8 | 13.8 | 22.33975733 | 114.1791798 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:50:11 | 5.2 | 19 | 22.33977667 | 114.1791812 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:50:56 | 4.5 | 12.8 | 22.34208583 | 114.178759 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:55:14 | 4.9 | 19.6 | 22.36568017 | 114.1806437 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:55:15 | 4.3 | 24 | 22.365718 | 114.1806382 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:55:58 | 5.8 | 10.2 | 22.36911667 | 114.1803265 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:56:32 | 5.2 | 15.3 | 22.36883933 | 114.1790143 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:56:33 | 4.8 | 20.2 | 22.36882817 | 114.1789888 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:57:05 | 4.5 | 8.7 | 22.368471 | 114.1780962 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:57:06 | 5.8 | 14.6 | 22.36846633 | 114.1780853 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:57:07 | 5.8 | 20.4 | 22.36845667 | 114.178063 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:57:43 | 6.2 | 12.3 | 22.36758833 | 114.1766097 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:57:44 | 5.1 | 17.5 | 22.36757533 | 114.176599 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:58:59 | 5.2 | 9.5 | 22.36741583 | 114.1763273 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:59:52 | 4.6 | 10.4 | 22.3654275 | 114.1753532 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:59:53 | 5.9 | 16.3 | 22.36541917 | 114.1753398 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 01:59:54 | 4.3 | 20.7 | 22.36540217 | 114.1753158 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:00:46 | 4.8 | 7.2 | 22.362876 | 114.1724323 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:00:47 | 5.6 | 12.9 | 22.3628745 | 114.1724265 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:00:48 | 6.4 | 19.3 | 22.36287283 | 114.1724067 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:00:49 | 4.1 | 23.4 | 22.3628695 | 114.1723718 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:00:50 | 4.5 | 27.9 | 22.36286517 | 114.17232 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:01:45 | 4.2 | 14 | 22.36336517 | 114.1713387 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:03:31 | 5.3 | 13.1 | 22.36749783 | 114.1742887 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:03:32 | 6.2 | 19.3 | 22.36751217 | 114.1742937 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:04:02 | 5.7 | 7 | 22.36878917 | 114.1750355 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:04:03 | 5.9 | 13 | 22.36879317 | 114.175039 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:04:04 | 6.1 | 19.2 | 22.36880617 | 114.1750522 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:04:05 | 4.4 | 23.6 | 22.36882833 | 114.1750783 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:04:44 | 4.6 | 16.4 | 22.3713715 | 114.1783463 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:04:45 | 4.9 | 21.4 | 22.37139483 | 114.1783662 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:04:46 | 4 | 25.5 | 22.371429 | 114.1783932 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:05:31 | 4.7 | 9.6 | 22.37266017 | 114.180462 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:05:32 | 6.4 | 16 | 22.37266767 | 114.1804727 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:05:33 | 5.4 | 21.5 | 22.3726815 | 114.1804933 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:05:52 | 6.7 | 11.4 | 22.373126 | 114.1812228 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:05:53 | 6.8 | 18.3 | 22.37313283 | 114.1812328 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:05:54 | 4.6 | 22.9 | 22.373149 | 114.1812585 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:06:51 | 4.9 | 11.6 | 22.37449533 | 114.1865325 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:06:52 | 6.1 | 17.8 | 22.37449717 | 114.1865483 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:06:53 | 4.9 | 22.7 | 22.37449967 | 114.1865792 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:08:09 | 5.5 | 12.8 | 22.3760005 | 114.1894765 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:08:10 | 6 | 18.8 | 22.37601483 | 114.1894908 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:09:10 | 5.1 | 11 | 22.376138 | 114.1915882 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:09:11 | 6.4 | 17.5 | 22.37614317 | 114.1916037 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:09:12 | 5 | 22.5 | 22.37615417 | 114.1916317 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:10:17 | 5.5 | 10.1 | 22.37604833 | 114.1924205 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:10:18 | 4.4 | 14.5 | 22.376032 | 114.192429 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:10:59 | 4.3 | 12.8 | 22.3764415 | 114.193719 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:11:40 | 4.7 | 11 | 22.377568 | 114.195226 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:11:41 | 5.9 | 16.9 | 22.3775745 | 114.1952408 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:11:42 | 4.8 | 21.8 | 22.37758767 | 114.195267 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:12:46 | 6.5 | 13.3 | 22.37779717 | 114.1955708 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:12:47 | 6.1 | 19.4 | 22.37780783 | 114.1955845 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:14:08 | 6 | 13.2 | 22.38071383 | 114.1944215 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:14:09 | 5.3 | 18.6 | 22.38072667 | 114.1944065 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:14:50 | 4.4 | 8.6 | 22.38251317 | 114.1956813 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:14:51 | 5.6 | 14.3 | 22.38252 | 114.1956893 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:14:52 | 5.8 | 20.1 | 22.38253317 | 114.1957075 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:15:12 | 7.2 | 12.6 | 22.383014 | 114.1962038 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:15:13 | 6.8 | 19.5 | 22.383024 | 114.1962128 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:15:14 | 4.3 | 23.8 | 22.383047 | 114.1962348 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:15:15 | 4 | 27.8 | 22.38308217 | 114.1962687 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:16:08 | 6.7 | 11.3 | 22.38567233 | 114.1988218 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:16:09 | 6.8 | 18.2 | 22.385681 | 114.198831 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:16:10 | 4.8 | 23 | 22.38570233 | 114.1988512 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:16:40 | 4.2 | 6 | 22.386931 | 114.2000398 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:16:42 | 5.8 | 16.2 | 22.38694717 | 114.2000532 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:16:43 | 5.2 | 21.5 | 22.38696917 | 114.20007 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:17:33 | 5.6 | 16.2 | 22.38939933 | 114.2033813 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:17:34 | 5.1 | 21.3 | 22.38940817 | 114.2034082 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:18:44 | 6.3 | 11.4 | 22.39074617 | 114.2054588 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:18:45 | 6.4 | 17.9 | 22.39075717 | 114.2054682 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:18:46 | 4.7 | 22.6 | 22.39077933 | 114.2054893 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:19:17 | 5.7 | 14.1 | 22.39174733 | 114.2063922 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:19:18 | 5.8 | 20 | 22.39176267 | 114.2064113 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:20:05 | 6.5 | 11.1 | 22.39268067 | 114.2073585 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:20:06 | 6.4 | 17.6 | 22.39268967 | 114.2073663 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:20:07 | 5.4 | 23 | 22.39271083 | 114.2073865 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:23:09 | 5.8 | 7.3 | 22.4061435 | 114.2218945 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:23:10 | 5.6 | 13 | 22.40615067 | 114.2218983 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:23:11 | 6.5 | 19.6 | 22.40616783 | 114.2219087 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:23:12 | 4.4 | 24 | 22.40619667 | 114.2219285 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:24:48 | 5.3 | 10.5 | 22.40633633 | 114.2224758 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:24:49 | 6.5 | 17.1 | 22.40634383 | 114.2224658 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:24:50 | 5.2 | 22.3 | 22.406359 | 114.2224438 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:25:23 | 5.2 | 11.1 | 22.40710983 | 114.2214193 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:27:45 | 5.2 | 11.9 | 22.41799383 | 114.2304405 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:27:46 | 4.4 | 16.4 | 22.41800467 | 114.2304233 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:28:01 | 6.2 | 12.7 | 22.41820683 | 114.2300892 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:28:02 | 6.5 | 19.3 | 22.41821483 | 114.230074 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:28:03 | 5.5 | 24.8 | 22.41823017 | 114.230044 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:28:04 | 4 | 28.8 | 22.41825333 | 114.2299982 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:29:21 | 5.2 | 9.7 | 22.42355533 | 114.2284043 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:29:22 | 6.1 | 15.8 | 22.42356533 | 114.2284123 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:29:23 | 5.3 | 21.2 | 22.4235825 | 114.2284322 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:30:56 | 5.7 | 9.7 | 22.4242205 | 114.2294027 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:30:57 | 6.2 | 16 | 22.42422467 | 114.2294115 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:30:58 | 5.8 | 21.8 | 22.42423567 | 114.229429 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:30:59 | 4.1 | 26 | 22.42425683 | 114.2294645 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:31:37 | 5.9 | 11.8 | 22.42499717 | 114.2318173 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:31:38 | 6.2 | 18.1 | 22.42500017 | 114.231834 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:31:39 | 5.4 | 23.6 | 22.4250055 | 114.231865 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:32:43 | 6.6 | 17.5 | 22.42544467 | 114.2338718 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | HH.STN | 2018-07-28 01:19:12 | 2018-07-28 01:20:00 | 2018-07-28 02:32:44 | 4.9 | 22.5 | 22.42545033 | 114.2339005 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 01:19:12 | NULL | 2018-07-28 02:37:31 | 4.5 | 14.1 | 22.42331117 | 114.2371755 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:00:09 | 4.2 | 9.1 | 22.42358383 | 114.2373193 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:00:27 | 4.2 | 23 | 22.4240065 | 114.2377545 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:01:20 | 5.2 | 13.3 | 22.42605 | 114.239436 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:01:50 | 6.1 | 10.5 | 22.42627817 | 114.2391987 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:01:51 | 5.2 | 15.7 | 22.42628083 | 114.2391867 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:01:52 | 5.9 | 21.7 | 22.4262825 | 114.2391568 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:03:18 | 6.1 | 14.6 | 22.4253445 | 114.2343138 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:03:19 | 5.6 | 20.3 | 22.4253375 | 114.2342918 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:03:20 | 4.5 | 24.9 | 22.42532667 | 114.2342547 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:04:01 | 4.3 | 11.9 | 22.42430233 | 114.2314845 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:05:18 | 5.2 | 10.4 | 22.42402333 | 114.2298563 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:05:19 | 6.3 | 16.8 | 22.42401733 | 114.2298447 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:05:20 | 4.8 | 21.7 | 22.42400867 | 114.2298185 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:06:34 | 5.4 | 8.3 | 22.42254817 | 114.2279788 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:06:35 | 6 | 14.4 | 22.4225655 | 114.2279645 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:06:36 | 4.7 | 19.2 | 22.42255317 | 114.2279407 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:07:50 | 5.4 | 16.3 | 22.4180845 | 114.2306303 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:07:51 | 4.4 | 20.7 | 22.41807017 | 114.2306572 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:10:25 | 5.8 | 15.3 | 22.406686 | 114.2224475 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:10:26 | 4.2 | 19.5 | 22.40666533 | 114.2224348 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:11:21 | 6.3 | 11.2 | 22.405377 | 114.2231208 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:11:22 | 6.5 | 17.8 | 22.40538017 | 114.223108 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:11:23 | 4.1 | 21.9 | 22.40540317 | 114.2230822 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:16:01 | 5.3 | 11.2 | 22.39090533 | 114.205806 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:16:02 | 6.2 | 17.5 | 22.390893 | 114.205795 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:16:03 | 5.4 | 22.9 | 22.3908695 | 114.2057738 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:16:04 | 4.1 | 27.1 | 22.39083433 | 114.2057405 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:17:31 | 7.1 | 10.7 | 22.3872535 | 114.2005297 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:17:32 | 7.3 | 18 | 22.38724567 | 114.2005208 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:17:33 | 4.3 | 22.4 | 22.38722283 | 114.2004985 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:18:47 | 4.6 | 8.6 | 22.38192033 | 114.195423 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:18:48 | 5.5 | 14.2 | 22.381913 | 114.1954158 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:18:49 | 6.4 | 20.7 | 22.3818975 | 114.1953997 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:19:09 | 4 | 25.3 | 22.38076267 | 114.1944805 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:19:10 | 4.2 | 29.6 | 22.38072533 | 114.1945162 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:19:39 | 5 | 17 | 22.37913183 | 114.196623 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:20:14 | 6 | 10 | 22.3779385 | 114.1958855 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:20:15 | 7 | 17 | 22.37793333 | 114.1958785 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:20:16 | 5.3 | 22.3 | 22.377918 | 114.1958568 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:20:38 | 5.2 | 13.2 | 22.37739533 | 114.1951685 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:20:39 | 5.8 | 19 | 22.37738583 | 114.1951505 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:20:40 | 4.4 | 23.5 | 22.37736783 | 114.1951203 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:21:31 | 4.8 | 9.4 | 22.37552567 | 114.1920667 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:21:32 | 5.7 | 15.1 | 22.37552283 | 114.1920568 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:21:33 | 5.7 | 20.8 | 22.3755165 | 114.1920333 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:22:40 | 6.8 | 17.3 | 22.37514667 | 114.1885097 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:22:41 | 4.6 | 22 | 22.37513217 | 114.188486 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:24:13 | 5.2 | 10.2 | 22.37212817 | 114.1801523 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:24:14 | 6.1 | 16.4 | 22.37212333 | 114.1801407 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:24:15 | 5.4 | 21.8 | 22.372113 | 114.1801158 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:25:43 | 5.1 | 22.2 | 22.367838 | 114.1745587 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:25:44 | 4.4 | 26.7 | 22.36779967 | 114.1745385 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:27:01 | 4.8 | 9.5 | 22.36354 | 114.1713647 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:27:08 | 5 | 24.9 | 22.36336133 | 114.171365 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:28:45 | 6.4 | 14 | 22.367163 | 114.1762327 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:28:46 | 5.2 | 19.3 | 22.367183 | 114.1762223 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:29:24 | 6.3 | 11.9 | 22.36872167 | 114.1784998 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:29:25 | 6.2 | 18.1 | 22.3687265 | 114.1785103 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:29:26 | 4.9 | 23.1 | 22.36873783 | 114.178538 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:29:55 | 5.7 | 11.4 | 22.36936567 | 114.1801272 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:29:56 | 5.9 | 17.4 | 22.36937183 | 114.1801413 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:29:57 | 4.1 | 21.5 | 22.36938483 | 114.1801697 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:36:24 | 5.6 | 14.2 | 22.33960017 | 114.1793333 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:36:25 | 4.9 | 19.1 | 22.3395705 | 114.1793357 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:36:26 | 4.1 | 23.2 | 22.33953 | 114.1793363 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:36:51 | 4 | 10.7 | 22.33822983 | 114.1792853 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:38:32 | 4.9 | 7.2 | 22.33070317 | 114.178755 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:38:33 | 5.3 | 12.5 | 22.33069233 | 114.1787547 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:38:34 | 5.1 | 17.7 | 22.3306705 | 114.1787537 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:40:21 | 5.5 | 8.8 | 22.321392 | 114.1782525 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:40:22 | 6.6 | 15.5 | 22.32138617 | 114.1782465 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:40:23 | 6.4 | 21.9 | 22.3213705 | 114.1782288 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:40:24 | 4.2 | 26.2 | 22.3213415 | 114.1781903 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:41:38 | 8 | 8 | 22.32077817 | 114.177315 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:41:39 | 7.2 | 15.3 | 22.32077233 | 114.1773112 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:41:40 | 5.8 | 21.1 | 22.32075467 | 114.177295 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:42:08 | 5.2 | 10.9 | 22.31976567 | 114.176542 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:42:09 | 5.8 | 16.7 | 22.31975567 | 114.176533 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:42:10 | 6.1 | 22.9 | 22.31973417 | 114.1765155 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:42:11 | 4 | 26.9 | 22.3197015 | 114.1764865 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:43:31 | 6.3 | 9.2 | 22.31865567 | 114.1756095 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:43:32 | 6.7 | 16 | 22.31864117 | 114.1755978 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:43:33 | 5.6 | 21.7 | 22.31861833 | 114.1755812 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:43:34 | 4 | 25.7 | 22.31858283 | 114.1755585 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:44:01 | 6.1 | 16.8 | 22.3177025 | 114.174928 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:44:02 | 5.7 | 22.5 | 22.31768267 | 114.1749093 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:45:01 | 6 | 13.1 | 22.3166045 | 114.1741393 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:45:02 | 6.2 | 19.4 | 22.31659267 | 114.1741273 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:45:03 | 4.3 | 23.7 | 22.31656533 | 114.1741083 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:46:10 | 5.3 | 11.2 | 22.31395517 | 114.1721678 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:46:11 | 6.3 | 17.6 | 22.31394233 | 114.1721577 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:46:12 | 5 | 22.6 | 22.31391933 | 114.1721403 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:47:25 | 5.4 | 11.1 | 22.31298167 | 114.1708882 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:47:26 | 4.3 | 15.4 | 22.31297667 | 114.1708762 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:47:57 | 5.4 | 11.4 | 22.31195183 | 114.171146 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:47:58 | 6.1 | 17.6 | 22.31193767 | 114.1711518 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:47:59 | 5 | 22.6 | 22.31191067 | 114.1711628 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:49:01 | 5.9 | 16.3 | 22.306666 | 114.1717443 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:49:02 | 4.8 | 21.1 | 22.3066355 | 114.1717337 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:49:41 | 6.7 | 14 | 22.30585133 | 114.171683 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:49:42 | 5.7 | 19.7 | 22.30583417 | 114.1716837 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:50:16 | 5.1 | 11.2 | 22.30441467 | 114.171807 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:50:17 | 5.9 | 17.1 | 22.30439867 | 114.1718055 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:50:18 | 4.3 | 21.5 | 22.3043705 | 114.1718017 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:51:20 | 7.5 | 12.9 | 22.3005185 | 114.1719583 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:51:21 | 6.9 | 19.9 | 22.30050483 | 114.1719588 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:51:22 | 5 | 24.9 | 22.30047167 | 114.1719627 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:51:23 | 4 | 28.9 | 22.30042183 | 114.1719653 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:52:04 | 6.5 | 17 | 22.298227 | 114.1720592 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:52:05 | 6.1 | 23.2 | 22.29820117 | 114.1720555 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:52:06 | 4.1 | 27.4 | 22.2981575 | 114.1720508 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:52:26 | 5 | 25.9 | 22.29664517 | 114.172145 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:54:07 | 5.8 | 10 | 22.2970215 | 114.1754492 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:54:08 | 6.7 | 16.7 | 22.29703383 | 114.1754507 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:54:09 | 5.4 | 22.2 | 22.29706033 | 114.1754558 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:54:51 | 5.7 | 7.8 | 22.29916617 | 114.1757815 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:54:52 | 5.9 | 13.8 | 22.29917383 | 114.1757813 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:54:53 | 6.5 | 20.3 | 22.29919183 | 114.1757828 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:55:21 | 5.7 | 10 | 22.3002975 | 114.1761252 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:55:22 | 6.6 | 16.6 | 22.30030967 | 114.17613 |
| 76129 | | STD | 2018-07-28 | N281 | UN 592 | N281 | KAMYNG | 2018-07-28 02:59:23 | 2018-07-28 03:00:00 | 2018-07-28 03:55:23 | 5.3 | 22 | 22.3003345 | 114.17614 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:19:36 | 6.3 | 13.4 | 22.33025933 | 114.1786005 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:19:37 | 6.5 | 20 | 22.3302745 | 114.1786005 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:19:38 | 4 | 24.1 | 22.330308 | 114.1786035 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:20:12 | 4.7 | 9.2 | 22.332454 | 114.1787397 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:20:13 | 5.9 | 15.2 | 22.3324645 | 114.1787403 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:20:14 | 5.6 | 20.8 | 22.33248733 | 114.178742 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:20:15 | 4.1 | 25 | 22.33252433 | 114.1787447 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:20:53 | 7.1 | 7.1 | 22.333929 | 114.1788357 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:20:54 | 6.1 | 13.2 | 22.33392983 | 114.1788362 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:20:55 | 6.2 | 19.5 | 22.33394767 | 114.1788373 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:20:56 | 4.5 | 24 | 22.3339815 | 114.1788393 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:29:06 | 5.3 | 11.6 | 22.378689 | 114.2043343 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:29:07 | 6 | 17.7 | 22.37870083 | 114.2043532 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:29:08 | 5.4 | 23.2 | 22.37872033 | 114.204384 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:30:11 | 5.4 | 9.5 | 22.38045617 | 114.2070105 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:30:12 | 5.6 | 15.2 | 22.38046883 | 114.2070192 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:30:34 | 5.2 | 21 | 22.38136683 | 114.2069777 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:30:35 | 4.9 | 26 | 22.381392 | 114.2070108 |
| 76129 | | STD | NULL | NULL | UN 592 | NULL | NULL | 2018-07-28 02:59:23 | NULL | 2018-07-28 04:34:21 | 4.6 | 15.1 | 22.382758 | 114.2075662 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 20:11:04 | NULL | 2018-07-28 20:13:46 | 5.8 | 11.9 | 22.38402767 | 114.2082958 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 20:11:04 | NULL | 2018-07-28 20:13:47 | 5.7 | 17.6 | 22.38403367 | 114.2083077 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 20:11:04 | NULL | 2018-07-28 20:13:48 | 4.3 | 21.9 | 22.38403317 | 114.2083562 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 20:11:04 | NULL | 2018-07-28 20:15:32 | 4.6 | 8.4 | 22.38346 | 114.2139735 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 20:11:04 | NULL | 2018-07-28 20:15:33 | 5.5 | 13.9 | 22.3834585 | 114.2139803 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 20:11:04 | NULL | 2018-07-28 20:15:34 | 5.4 | 19.4 | 22.38345833 | 114.2139997 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:20:02 | 4.1 | 7.5 | 22.3821605 | 114.2180472 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:21:01 | 4.6 | 7.9 | 22.38289783 | 114.214963 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:21:02 | 5.1 | 13.1 | 22.382902 | 114.2149572 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:21:03 | 4.2 | 17.3 | 22.382914 | 114.214941 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:22:06 | 5.3 | 10.6 | 22.383116 | 114.2145093 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:22:07 | 6.4 | 17 | 22.38312017 | 114.214497 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:22:09 | 4.6 | 27.4 | 22.383147 | 114.2144293 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:22:45 | 5.5 | 10.1 | 22.38294083 | 114.21207 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:22:46 | 6.4 | 16.5 | 22.38293817 | 114.2120582 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:22:47 | 6.2 | 22.7 | 22.38293433 | 114.2120303 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:22:48 | 5 | 27.8 | 22.382932 | 114.2119842 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:24:22 | 6.4 | 12.5 | 22.38307233 | 114.2102815 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:24:23 | 6.8 | 19.4 | 22.38308217 | 114.2102717 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:24:24 | 4.6 | 24 | 22.38309383 | 114.210241 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:25:39 | 6.8 | 18.8 | 22.38403183 | 114.2086233 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:25:40 | 4.8 | 23.6 | 22.3840525 | 114.208596 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:27:00 | 7.2 | 9.8 | 22.3854355 | 114.2070557 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:27:01 | 7.7 | 17.5 | 22.38544117 | 114.2070483 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:27:02 | 4.6 | 22.2 | 22.38546 | 114.207026 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:27:50 | 6.6 | 12.6 | 22.38665167 | 114.2056647 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:27:51 | 6 | 18.6 | 22.38666317 | 114.2056507 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:27:52 | 4.5 | 23.1 | 22.38668667 | 114.2056238 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:28:28 | 5.4 | 7.3 | 22.3874985 | 114.204728 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:28:29 | 4.7 | 12.1 | 22.38750317 | 114.204722 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:29:13 | 4.1 | 7.6 | 22.38690867 | 114.2038635 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:29:14 | 5.6 | 13.2 | 22.386904 | 114.2038562 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:29:15 | 5.8 | 19.1 | 22.38689083 | 114.2038383 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:29:32 | 4.9 | 19.2 | 22.3864315 | 114.2032585 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:29:33 | 4.3 | 23.6 | 22.38640633 | 114.203227 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:30:54 | 7 | 11.1 | 22.38184117 | 114.2024667 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:30:55 | 7.2 | 18.4 | 22.38183083 | 114.2024757 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:30:56 | 5.1 | 23.5 | 22.38180517 | 114.2024975 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:31:48 | 7.9 | 9.9 | 22.3806565 | 114.2033715 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:31:49 | 7.5 | 17.5 | 22.3806565 | 114.2033715 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:31:50 | 4.5 | 22 | 22.380643 | 114.2033693 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:32:16 | 4.6 | 7.1 | 22.3798165 | 114.204026 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:32:17 | 5.6 | 12.7 | 22.37981367 | 114.204027 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:32:18 | 6.4 | 19.2 | 22.379805 | 114.2040303 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:33:24 | 5.4 | 5.4 | 22.37910467 | 114.2045753 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:33:25 | 5 | 10.5 | 22.37910467 | 114.2045753 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:33:26 | 5.9 | 16.4 | 22.37910333 | 114.2045817 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:33:27 | 4.4 | 20.8 | 22.379091 | 114.2045927 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:34:27 | 5 | 7.3 | 22.37788567 | 114.2003052 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:34:28 | 5.7 | 13.1 | 22.37788567 | 114.200305 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:34:29 | 5.9 | 19 | 22.37788967 | 114.200291 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:34:30 | 4.4 | 23.5 | 22.37789683 | 114.2002662 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:35:44 | 7.8 | 7.8 | 22.37883633 | 114.1970045 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:35:45 | 7.8 | 15.7 | 22.37883633 | 114.1970045 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:35:46 | 5.6 | 21.3 | 22.3788365 | 114.1969993 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:36:45 | 5 | 10.9 | 22.3779845 | 114.196021 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:36:46 | 4.9 | 15.9 | 22.37798067 | 114.1960168 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:37:25 | 5.4 | 5.4 | 22.37730483 | 114.195121 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:37:26 | 4.7 | 10.1 | 22.37730483 | 114.195121 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:37:27 | 6 | 16.2 | 22.377301 | 114.1951163 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:37:28 | 4.8 | 21.1 | 22.37729033 | 114.1951012 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:38:42 | 6.2 | 8.3 | 22.3758145 | 114.1928515 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:38:43 | 5.8 | 14.1 | 22.3758145 | 114.1928513 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:38:44 | 4.8 | 19 | 22.37580883 | 114.1928403 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:39:31 | 5.1 | 10.4 | 22.37584467 | 114.1910892 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:39:32 | 6.6 | 17.1 | 22.37584167 | 114.1910773 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:39:33 | 5 | 22.1 | 22.375836 | 114.191057 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:40:01 | 7 | 9.1 | 22.37557117 | 114.1905248 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:40:02 | 5.6 | 14.8 | 22.37557 | 114.1905205 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:40:03 | 5 | 19.8 | 22.37556183 | 114.190508 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:40:39 | 4.2 | 4.2 | 22.37524383 | 114.1886952 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:40:40 | 5.5 | 9.7 | 22.37524383 | 114.1886952 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:40:41 | 5.7 | 15.4 | 22.37524167 | 114.1886912 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:42:01 | 4.6 | 11.2 | 22.374181 | 114.1862543 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:42:53 | 4.4 | 10.1 | 22.37347333 | 114.185546 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:42:54 | 5.3 | 15.5 | 22.37346317 | 114.1855472 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:42:55 | 5.2 | 20.7 | 22.37344217 | 114.1855512 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:44:42 | 4.5 | 7.9 | 22.37102617 | 114.1860813 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:44:43 | 5.7 | 13.7 | 22.37103283 | 114.1860968 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:44:44 | 5.5 | 19.3 | 22.3710425 | 114.186108 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:45:41 | 4.8 | 14.4 | 22.37002033 | 114.187843 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:45:42 | 4.1 | 18.5 | 22.37000483 | 114.1878287 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:46:15 | 5.1 | 5.1 | 22.36948667 | 114.1873912 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:46:16 | 5 | 10.2 | 22.36948583 | 114.18739 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:46:17 | 6 | 16.2 | 22.36947783 | 114.1873853 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:46:18 | 5.8 | 22.1 | 22.3694595 | 114.1873748 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:46:19 | 4.2 | 26.3 | 22.36942767 | 114.187357 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:49:25 | 5.8 | 7.8 | 22.37226517 | 114.1803158 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:49:26 | 4.4 | 12.2 | 22.37226233 | 114.180312 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:49:29 | 4.4 | 24.4 | 22.37221067 | 114.1802473 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:50:28 | 4.7 | 4.7 | 22.36966167 | 114.180222 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:50:29 | 5.3 | 10.1 | 22.3696615 | 114.1802222 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:50:30 | 5.6 | 15.7 | 22.3696535 | 114.1802318 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:50:31 | 4.5 | 20.3 | 22.36963383 | 114.1802447 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:50:37 | 4.4 | 28.7 | 22.36934767 | 114.1802535 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:51:34 | 5.4 | 5.4 | 22.36879933 | 114.1789497 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:51:35 | 5.1 | 10.6 | 22.36879717 | 114.1789498 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:51:36 | 5.8 | 16.4 | 22.36879267 | 114.1789398 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:51:37 | 5 | 21.4 | 22.36878267 | 114.1789152 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:52:21 | 6 | 7.2 | 22.3675145 | 114.1764655 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:52:22 | 7.3 | 14.6 | 22.3675125 | 114.1764628 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:54:55 | 4.6 | 19.6 | 22.37138117 | 114.1783248 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:54:56 | 4.5 | 24.2 | 22.37141 | 114.1783482 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:56:24 | 5.1 | 6.6 | 22.373996 | 114.176653 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:56:25 | 6.2 | 12.8 | 22.373996 | 114.176658 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:56:26 | 6.1 | 19 | 22.37400817 | 114.1766502 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:56:54 | 5.8 | 11.2 | 22.3753325 | 114.1757455 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:56:55 | 6.9 | 18.1 | 22.37534183 | 114.1757398 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:56:56 | 4.8 | 23 | 22.37536533 | 114.175725 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:57:33 | 5.4 | 11.2 | 22.37750267 | 114.1744862 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | WN.TAU | 2018-07-28 20:11:04 | 2018-07-28 20:20:00 | 2018-07-28 20:57:34 | 5 | 16.2 | 22.37751567 | 114.1744807 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:11:04 | 4.7 | 8.3 | 22.37783867 | 114.174751 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:11:05 | 4.5 | 12.8 | 22.37784017 | 114.174742 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:11:33 | 5.3 | 5.3 | 22.37690617 | 114.1750812 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:11:34 | 5.1 | 10.4 | 22.37690333 | 114.1750817 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:11:35 | 5.8 | 16.2 | 22.37689233 | 114.1750892 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:11:36 | 5.2 | 21.5 | 22.37687033 | 114.175104 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:12:16 | 7 | 9.3 | 22.37594367 | 114.1756873 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:12:17 | 6.4 | 15.7 | 22.37593817 | 114.1756905 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:12:18 | 4.6 | 20.4 | 22.37591883 | 114.1757028 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:13:04 | 4.4 | 8.2 | 22.37373533 | 114.1770875 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:13:05 | 5.3 | 13.6 | 22.37372817 | 114.1770927 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:13:06 | 6.2 | 19.8 | 22.37371083 | 114.1771035 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:13:07 | 4.1 | 24 | 22.373682 | 114.177122 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:13:47 | 7.8 | 14.2 | 22.37231167 | 114.178223 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:13:48 | 5 | 19.3 | 22.37229917 | 114.1782318 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:14:05 | 4.6 | 15.3 | 22.37175 | 114.1786635 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:14:06 | 5.5 | 20.9 | 22.3717335 | 114.1786862 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:14:33 | 5.2 | 10 | 22.3706865 | 114.1778727 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:14:34 | 5.4 | 15.5 | 22.3706815 | 114.1778627 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:14:35 | 5.7 | 21.2 | 22.37067083 | 114.1778387 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:15:21 | 4.9 | 10.9 | 22.36868617 | 114.1751825 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:15:22 | 6.2 | 17.1 | 22.3686755 | 114.1751732 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:15:23 | 4.9 | 22 | 22.36865483 | 114.1751552 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:15:48 | 5.3 | 24.8 | 22.36755517 | 114.1747605 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:16:43 | 6 | 8 | 22.36733483 | 114.1760908 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:16:44 | 6.8 | 14.9 | 22.3673365 | 114.176096 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:16:45 | 5.9 | 20.8 | 22.3673425 | 114.1761165 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:17:35 | 4.9 | 8.7 | 22.368993 | 114.1792028 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:17:36 | 5.6 | 14.4 | 22.36899633 | 114.1792102 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:17:37 | 6.3 | 20.7 | 22.36900283 | 114.17923 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:17:53 | 4.4 | 25.4 | 22.36950167 | 114.180255 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:17:54 | 4.4 | 29.9 | 22.369558 | 114.1802503 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:19:53 | 5 | 5 | 22.37247917 | 114.1801855 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:19:54 | 5.1 | 10.2 | 22.37248583 | 114.1801912 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:19:55 | 5.5 | 15.8 | 22.3724955 | 114.1802022 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:19:56 | 4.6 | 20.5 | 22.3725125 | 114.1802253 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:20:09 | 4.9 | 10.5 | 22.37263267 | 114.1804083 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:20:10 | 6.2 | 16.8 | 22.3726395 | 114.1804205 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:20:11 | 5.3 | 22.2 | 22.3726515 | 114.1804453 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:20:34 | 6.5 | 6.5 | 22.37301133 | 114.1810238 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:20:35 | 5.1 | 11.6 | 22.37301417 | 114.1810283 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:20:36 | 5.3 | 17 | 22.373024 | 114.1810422 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:20:37 | 4.3 | 21.3 | 22.37304 | 114.1810685 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:22:48 | 4.2 | 10.4 | 22.37009767 | 114.1855252 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:22:49 | 5.6 | 16.1 | 22.3701105 | 114.1855328 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:22:50 | 5.3 | 21.4 | 22.370133 | 114.185546 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:23:19 | 4.6 | 9.5 | 22.37094267 | 114.18606 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:23:20 | 5.8 | 15.3 | 22.37095467 | 114.186068 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:23:21 | 5.4 | 20.8 | 22.37097233 | 114.1860883 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:23:58 | 4.9 | 12.9 | 22.36998333 | 114.1877872 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:23:59 | 4.9 | 17.8 | 22.36996983 | 114.187773 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:24:40 | 5.1 | 11.6 | 22.36971333 | 114.1875222 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:24:41 | 5.5 | 17.1 | 22.36970117 | 114.187511 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:26:56 | 5.4 | 10.3 | 22.37421133 | 114.185364 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:26:57 | 5.9 | 16.2 | 22.37422133 | 114.1853675 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:26:58 | 4.1 | 20.4 | 22.37423033 | 114.1853645 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:27:27 | 5.5 | 6.9 | 22.37442283 | 114.1864502 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:27:28 | 5.4 | 12.4 | 22.37442317 | 114.1864543 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:27:29 | 6.5 | 19 | 22.37442333 | 114.1864718 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:27:30 | 4.3 | 23.3 | 22.37442217 | 114.1865047 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:27:57 | 5.3 | 7.5 | 22.37486783 | 114.1878203 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:27:58 | 6.5 | 14.1 | 22.37486933 | 114.1878247 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:27:59 | 5.8 | 19.9 | 22.3748785 | 114.1878428 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:28:56 | 5.6 | 10.6 | 22.37600667 | 114.1895155 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:28:57 | 6.1 | 16.8 | 22.376016 | 114.1895247 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:28:58 | 4.2 | 21.1 | 22.376037 | 114.1895445 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:29:49 | 4.7 | 20.1 | 22.37609617 | 114.1916218 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:29:50 | 4.1 | 24.3 | 22.37610883 | 114.1916612 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:30:00 | 4.8 | 19.6 | 22.37621167 | 114.1921325 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:31:02 | 4.6 | 10 | 22.37721867 | 114.1947545 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:31:03 | 5.6 | 15.7 | 22.37722567 | 114.1947643 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:31:04 | 5.2 | 21 | 22.37723983 | 114.194785 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:32:13 | 5.6 | 7.6 | 22.37775667 | 114.195556 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:32:14 | 6.4 | 14.1 | 22.37776517 | 114.1955698 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:32:15 | 6.1 | 20.2 | 22.37778017 | 114.1955905 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:34:02 | 5.3 | 7.6 | 22.37875383 | 114.2043113 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:34:03 | 5.2 | 12.9 | 22.37875917 | 114.2043167 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:34:04 | 4.2 | 17.1 | 22.37877 | 114.204333 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:34:10 | 4 | 27.8 | 22.37898917 | 114.2044438 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:34:48 | 5.2 | 5.2 | 22.38113417 | 114.202735 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:34:49 | 4.8 | 10 | 22.38113633 | 114.2027353 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:35:02 | 4.2 | 4.2 | 22.381362 | 114.2026042 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:35:03 | 5.1 | 9.4 | 22.38136317 | 114.2026033 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:35:04 | 6 | 15.4 | 22.38137167 | 114.2025967 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:35:05 | 5.6 | 21.1 | 22.38139083 | 114.2025815 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:35:43 | 6.6 | 12.1 | 22.38333967 | 114.2016957 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:35:44 | 6.7 | 18.9 | 22.3833535 | 114.2016963 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:35:45 | 4.8 | 23.7 | 22.38338533 | 114.201701 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:36:23 | 5.1 | 10.6 | 22.3847745 | 114.2019933 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:36:24 | 5.9 | 16.6 | 22.38479283 | 114.2019918 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:36:25 | 5.3 | 21.9 | 22.38481733 | 114.2019945 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:37:09 | 4.6 | 10.8 | 22.38625433 | 114.2027798 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:37:40 | 4.7 | 9.7 | 22.38664117 | 114.203208 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:37:41 | 6.2 | 16 | 22.38664883 | 114.2032168 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:37:42 | 5.3 | 21.3 | 22.3866645 | 114.2032367 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:39:05 | 6.8 | 8.4 | 22.38768933 | 114.204357 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:39:06 | 6.2 | 14.7 | 22.38769333 | 114.2043597 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:40:00 | 7.8 | 7.8 | 22.38706667 | 114.2053967 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:40:01 | 6.9 | 14.8 | 22.38709967 | 114.2053898 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:40:02 | 5.8 | 20.6 | 22.3870975 | 114.2054092 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:40:24 | 4.4 | 9.4 | 22.3864635 | 114.206161 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:40:25 | 5.9 | 15.4 | 22.3864555 | 114.2061697 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:40:26 | 5.7 | 21.1 | 22.38643833 | 114.2061863 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:41:19 | 6.2 | 10.3 | 22.38594983 | 114.2066633 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:41:20 | 6.4 | 16.8 | 22.385945 | 114.2066645 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:41:21 | 5.3 | 22.2 | 22.38592817 | 114.2066787 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:43:20 | 5.8 | 9.8 | 22.38447333 | 114.2083042 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:43:21 | 6.3 | 16.1 | 22.38447 | 114.2083072 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:43:22 | 4.8 | 21 | 22.3844545 | 114.208325 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:44:13 | 5.9 | 10.4 | 22.38340783 | 114.2097577 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:44:14 | 6.1 | 16.6 | 22.38340267 | 114.209766 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:44:15 | 4.1 | 20.7 | 22.3833905 | 114.2097905 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:45:07 | 4.1 | 6.5 | 22.38339483 | 114.2137677 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:45:09 | 5.7 | 17.5 | 22.3833885 | 114.213795 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:45:10 | 4.4 | 21.9 | 22.383381 | 114.2138292 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:45:45 | 5.8 | 13.9 | 22.382902 | 114.2150527 |
| 76129 | | STD | 2018-07-28 | N281 | UR1625 | 82K | MEILAM | 2018-07-28 21:09:10 | 2018-07-28 21:10:00 | 2018-07-28 21:45:46 | 5.2 | 19.2 | 22.38288617 | 114.2150682 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:48:46 | 4.7 | 10.8 | 22.38215183 | 114.2179243 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:49:07 | 4.8 | 20 | 22.38198317 | 114.2178277 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:49:09 | 4.5 | 29.6 | 22.38194683 | 114.2177427 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:49:10 | 4.9 | 34.6 | 22.381929 | 114.2176822 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:50:01 | 6.6 | 12.3 | 22.38302417 | 114.214677 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:50:02 | 5.3 | 17.6 | 22.38303033 | 114.2146685 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:50:03 | 5.4 | 23.1 | 22.38304383 | 114.2146408 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:50:04 | 4.2 | 27.4 | 22.38306533 | 114.214599 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:51:28 | 8.8 | 8.8 | 22.38306933 | 114.210379 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:51:29 | 7.3 | 16.2 | 22.38307117 | 114.21037 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:51:30 | 6.4 | 22.6 | 22.38307383 | 114.2103503 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:56:37 | 4.6 | 23.6 | 22.41763783 | 114.2316797 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:57:35 | 6.5 | 7.7 | 22.41912683 | 114.2322557 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:57:36 | 5.8 | 13.5 | 22.41912933 | 114.2322563 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:57:37 | 5.3 | 18.8 | 22.41914367 | 114.2322577 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:57:39 | 4.7 | 28.8 | 22.41921683 | 114.232264 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:57:40 | 4.2 | 33.1 | 22.41927483 | 114.2322662 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:58:28 | 5.8 | 10.1 | 22.421306 | 114.2324198 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:58:29 | 6.5 | 16.7 | 22.421316 | 114.2324278 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:58:30 | 5.2 | 21.9 | 22.42134167 | 114.2324367 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:59:55 | 5.2 | 8.1 | 22.42310417 | 114.2359333 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:59:56 | 5.8 | 14 | 22.42310567 | 114.2359387 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 21:59:57 | 5.5 | 19.5 | 22.423119 | 114.2359557 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 22:00:17 | 6.3 | 2.7 | 22.42401433 | 114.2373768 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 22:00:46 | 5.3 | 9.1 | 22.42402483 | 114.2375672 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 22:01:05 | 4.7 | 12.5 | 22.42364467 | 114.2374658 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 21:09:10 | NULL | 2018-07-28 22:01:06 | 5.4 | 17.9 | 22.42363483 | 114.2374487 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 23:49:09 | NULL | 2018-07-28 23:49:56 | 4.5 | 11.5 | 22.42366133 | 114.2374538 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-28 23:49:09 | NULL | 2018-07-28 23:49:57 | 4.6 | 16.2 | 22.42367217 | 114.2374702 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:50:10 | 5.5 | 9.6 | 22.42393267 | 114.2376208 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:50:11 | 5.1 | 14.8 | 22.42393933 | 114.2376217 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:50:51 | 6.1 | 10.2 | 22.4251755 | 114.239936 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:50:52 | 6.2 | 16.4 | 22.42518233 | 114.2399323 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:50:53 | 6.5 | 23 | 22.42520433 | 114.2399238 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:50:54 | 4.6 | 27.7 | 22.42524167 | 114.2399105 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:50:55 | 4.1 | 31.9 | 22.42529583 | 114.239896 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:51:13 | 5.9 | 5.9 | 22.425987 | 114.2394793 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:51:14 | 5.8 | 11.8 | 22.42599033 | 114.2394783 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:51:15 | 5.9 | 17.7 | 22.42600083 | 114.2394688 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:51:16 | 5.1 | 22.9 | 22.426023 | 114.2394492 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:52:53 | 6.2 | 12.4 | 22.425316 | 114.2343462 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:52:54 | 6.4 | 18.8 | 22.42531367 | 114.2343327 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:52:55 | 4.4 | 23.2 | 22.42530683 | 114.2343027 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:54:42 | 5.3 | 6.8 | 22.42260133 | 114.2279805 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:54:43 | 4.1 | 11 | 22.42259783 | 114.2279777 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:54:52 | 5.1 | 26.1 | 22.422267 | 114.2279852 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:54:53 | 4.2 | 30.3 | 22.42223817 | 114.2280308 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:56:36 | 4.9 | 13 | 22.41766583 | 114.2316052 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:56:37 | 5.8 | 18.9 | 22.41766417 | 114.2316267 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:59:35 | 5.6 | 7 | 22.40670017 | 114.2224368 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:59:36 | 5.5 | 12.6 | 22.40669517 | 114.2224332 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-28 23:59:37 | 5.3 | 17.9 | 22.40668267 | 114.2224253 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:04:06 | 7.1 | 1.9 | 22.3914195 | 114.2063382 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:04:16 | 4.7 | 6.2 | 22.391392 | 114.206312 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:04:17 | 5.2 | 11.4 | 22.391389 | 114.2063083 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:04:18 | 6.2 | 17.7 | 22.39138083 | 114.2062967 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:04:19 | 5 | 22.7 | 22.39136667 | 114.2062725 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:05:18 | 7.4 | 7.4 | 22.390901 | 114.2058038 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:05:19 | 6.8 | 14.2 | 22.390891 | 114.2057933 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:05:20 | 6.3 | 20.6 | 22.390878 | 114.2057792 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:05:21 | 4.3 | 24.9 | 22.390853 | 114.205755 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:06:13 | 4.7 | 11.8 | 22.38850933 | 114.201875 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:06:14 | 6.3 | 18.1 | 22.3885 | 114.2018627 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:06:15 | 4.6 | 22.7 | 22.38848433 | 114.2018385 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:06:58 | 7 | 12 | 22.38728717 | 114.2006248 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:06:59 | 6.9 | 19 | 22.38728083 | 114.2006158 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:08:23 | 4.3 | 25.1 | 22.38075733 | 114.1944782 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:09:05 | 4.9 | 9 | 22.37923717 | 114.1964503 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:09:06 | 4.5 | 13.6 | 22.37923417 | 114.1964588 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:09:44 | 6.1 | 7.3 | 22.37802833 | 114.1960485 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:09:45 | 6.6 | 14 | 22.3780235 | 114.1960422 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:09:46 | 6.1 | 20.1 | 22.3780135 | 114.1960262 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:10:19 | 6.7 | 7.8 | 22.37671267 | 114.1941778 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:10:20 | 7.1 | 14.9 | 22.37671033 | 114.1941763 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:10:21 | 5.5 | 20.5 | 22.37669783 | 114.1941625 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:10:56 | 4.8 | 4.8 | 22.375506 | 114.1920972 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:10:57 | 4.4 | 9.3 | 22.3755055 | 114.1920938 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:10:58 | 5.5 | 14.9 | 22.37550133 | 114.192084 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:10:59 | 5.3 | 20.2 | 22.37549317 | 114.1920623 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:11:42 | 5.3 | 10.6 | 22.375907 | 114.1898912 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:12:23 | 5.1 | 10 | 22.37511233 | 114.1884772 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:12:24 | 5.9 | 15.9 | 22.37510667 | 114.1884667 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:12:25 | 5 | 21 | 22.37509383 | 114.1884448 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:14:05 | 5.6 | 8 | 22.37146033 | 114.1790972 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:14:06 | 6 | 14.1 | 22.37145683 | 114.1790932 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:14:07 | 5.1 | 19.2 | 22.371442 | 114.1790812 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:14:45 | 4.3 | 13.1 | 22.37066567 | 114.1778347 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:14:46 | 4.7 | 17.9 | 22.3706575 | 114.1778148 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:14:47 | 5.1 | 23 | 22.3706465 | 114.1777835 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:16:12 | 5.4 | 5.4 | 22.36792133 | 114.1745675 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:16:13 | 5.6 | 11.1 | 22.36791267 | 114.1745685 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:16:14 | 5.9 | 17 | 22.3679 | 114.1745627 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:16:15 | 5.6 | 22.6 | 22.36787817 | 114.17455 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:17:10 | 4.8 | 8.3 | 22.364197 | 114.1719968 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:17:11 | 5.1 | 13.5 | 22.364194 | 114.1719892 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:17:12 | 6 | 19.6 | 22.364182 | 114.1719745 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:18:26 | 5 | 6.7 | 22.36357 | 114.1713917 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:18:27 | 4.2 | 11 | 22.363567 | 114.1713885 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:18:33 | 5.1 | 19.9 | 22.36341983 | 114.171348 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:18:34 | 5 | 25 | 22.3633885 | 114.171367 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:19:13 | 5.1 | 7.2 | 22.36384767 | 114.173799 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:19:14 | 5.5 | 12.7 | 22.36384717 | 114.1738025 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:19:15 | 6.3 | 19 | 22.36385533 | 114.173816 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:19:16 | 4.9 | 24 | 22.3638735 | 114.1738398 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:19:55 | 5.3 | 6.8 | 22.3653885 | 114.1752017 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:19:56 | 5.3 | 12.1 | 22.36539717 | 114.1752002 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:19:57 | 6.1 | 18.3 | 22.36540967 | 114.1752113 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:19:58 | 5.4 | 23.7 | 22.36542767 | 114.1752357 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:20:48 | 5.2 | 7.3 | 22.36692367 | 114.1762505 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:20:49 | 5.6 | 13 | 22.36692733 | 114.1762512 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:20:50 | 6.3 | 19.4 | 22.36694167 | 114.1762457 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:20:51 | 4 | 23.4 | 22.36697083 | 114.1762355 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:21:36 | 5.6 | 8.3 | 22.36864983 | 114.1783098 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:21:37 | 5.1 | 13.5 | 22.368654 | 114.178316 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:21:38 | 4.5 | 18.1 | 22.36866333 | 114.1783353 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:22:01 | 4.9 | 7 | 22.3689925 | 114.1790602 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:22:02 | 5.2 | 12.3 | 22.36899467 | 114.1790653 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:22:03 | 6.4 | 18.8 | 22.3689985 | 114.1790808 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:22:04 | 4.8 | 23.6 | 22.36900467 | 114.1791118 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:23:14 | 6.9 | 6.9 | 22.36624867 | 114.1807523 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:23:15 | 6.6 | 13.6 | 22.3662475 | 114.1807513 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:23:16 | 4.9 | 18.5 | 22.36623317 | 114.1807518 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:28:39 | 8 | 11.4 | 22.34033133 | 114.1794233 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:28:40 | 7.3 | 18.7 | 22.34032467 | 114.179425 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:28:41 | 5.9 | 24.7 | 22.34029883 | 114.1794273 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:28:42 | 4.4 | 29.1 | 22.34025367 | 114.1794272 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:29:43 | 6.1 | 12.7 | 22.33938183 | 114.1793643 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:29:44 | 6 | 18.8 | 22.339368 | 114.1793662 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:29:45 | 4.9 | 23.7 | 22.33933767 | 114.179367 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:30:40 | 4.6 | 24.5 | 22.3345305 | 114.1790153 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:31:19 | 8.3 | 8.3 | 22.33313083 | 114.1789213 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:31:20 | 5.4 | 13.7 | 22.333127 | 114.1789193 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:32:10 | 7 | 13.2 | 22.33081483 | 114.17874 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:32:11 | 6.5 | 19.7 | 22.3308005 | 114.1787385 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:34:24 | 6.6 | 7.8 | 22.3217565 | 114.1781792 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:34:25 | 6.6 | 14.5 | 22.32175483 | 114.17818 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:34:26 | 5.1 | 19.6 | 22.3217385 | 114.1781867 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:34:51 | 7.6 | 14.8 | 22.3213745 | 114.1782388 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:34:52 | 6 | 20.9 | 22.32136333 | 114.1782268 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:34:53 | 4.5 | 25.4 | 22.32134033 | 114.1781983 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:35:19 | 4.9 | 7 | 22.31982783 | 114.1765647 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:35:20 | 6.5 | 13.5 | 22.3198245 | 114.1765612 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:35:21 | 4.8 | 18.4 | 22.31981317 | 114.1765478 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:35:34 | 6 | 6 | 22.31967017 | 114.176414 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:35:35 | 6.9 | 12.9 | 22.31966883 | 114.1764143 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:35:36 | 6.7 | 19.7 | 22.31965867 | 114.1764065 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:35:37 | 5.2 | 24.9 | 22.3196335 | 114.1763892 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:36:24 | 7 | 13.7 | 22.31864283 | 114.1756618 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:36:25 | 6.2 | 20 | 22.31863117 | 114.1756543 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:36:54 | 5.4 | 11.2 | 22.317718 | 114.174985 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:36:55 | 6.4 | 17.7 | 22.31770717 | 114.1749768 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:36:56 | 5.3 | 23 | 22.317686 | 114.17496 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:37:57 | 6.6 | 12.5 | 22.3167085 | 114.1741875 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:37:58 | 4.4 | 17 | 22.31669683 | 114.174182 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:37:59 | 5 | 22.1 | 22.31667333 | 114.174165 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:38:39 | 4.8 | 8.5 | 22.3144225 | 114.1725093 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:38:40 | 5.5 | 14.1 | 22.31441567 | 114.1725052 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:38:41 | 4.5 | 18.6 | 22.31439883 | 114.1724937 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:39:08 | 5.7 | 12.6 | 22.31416617 | 114.1723243 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:39:09 | 5.5 | 18.1 | 22.31415467 | 114.172316 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:40:08 | 4.4 | 9.8 | 22.31301783 | 114.171222 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:40:37 | 4.5 | 16.4 | 22.31201417 | 114.1709023 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:42:18 | 6.4 | 14.3 | 22.30362583 | 114.171884 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:42:19 | 5.7 | 20 | 22.30361017 | 114.171893 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:43:06 | 4.2 | 15.9 | 22.3010475 | 114.1719417 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:43:27 | 6.8 | 12.9 | 22.30082133 | 114.1719217 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:43:28 | 6 | 19 | 22.3008075 | 114.1719232 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:43:29 | 4.8 | 23.9 | 22.3007805 | 114.1719243 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:44:15 | 7.5 | 10.7 | 22.29983717 | 114.1719963 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:44:16 | 6.4 | 17.1 | 22.29983167 | 114.1719943 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:44:17 | 4.8 | 21.9 | 22.29980883 | 114.172001 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:45:01 | 5.1 | 11 | 22.29681417 | 114.1722388 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:45:02 | 6 | 17 | 22.2968015 | 114.1722418 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:45:03 | 5.3 | 22.4 | 22.29677433 | 114.1722432 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:46:33 | 6.1 | 9.1 | 22.29502433 | 114.1724022 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:46:34 | 6.6 | 15.7 | 22.2950155 | 114.1724033 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:46:40 | 4 | 26 | 22.294825 | 114.1725767 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:48:34 | 6.1 | 10.7 | 22.29933833 | 114.175516 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:48:35 | 6.6 | 17.3 | 22.29934783 | 114.1755207 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:48:36 | 4.9 | 22.3 | 22.29937183 | 114.1755262 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:49:08 | 4.8 | 4.8 | 22.30037867 | 114.1758762 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:49:09 | 6.5 | 11.4 | 22.30037867 | 114.1758762 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:49:10 | 7.2 | 18.6 | 22.30038617 | 114.1758797 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:49:11 | 5.1 | 23.7 | 22.30040983 | 114.1758813 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:50:07 | 6.2 | 10.5 | 22.302593 | 114.1768273 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:50:08 | 5.7 | 16.3 | 22.30260217 | 114.1768413 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-28 23:49:09 | 2018-07-28 23:50:00 | 2018-07-29 00:50:09 | 5 | 21.3 | 22.302622 | 114.1768643 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:21:45 | 4.7 | 13.2 | 22.300619 | 114.1763608 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:21:46 | 5.8 | 19.1 | 22.3006005 | 114.1763523 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:21:47 | 4 | 23.1 | 22.3005695 | 114.1763395 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:22:50 | 5.3 | 9.5 | 22.2995605 | 114.1760258 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:22:51 | 5.9 | 15.4 | 22.2995465 | 114.1760195 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:22:52 | 5.5 | 21 | 22.29952317 | 114.176014 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:23:22 | 4 | 5.3 | 22.29861167 | 114.1758528 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:23:23 | 5 | 10.4 | 22.29861383 | 114.1758457 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:23:24 | 5.8 | 16.2 | 22.29860183 | 114.1758407 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:23:25 | 5.2 | 21.5 | 22.29857867 | 114.1758322 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:24:26 | 5.1 | 9.9 | 22.29470433 | 114.1740658 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:24:27 | 5.9 | 15.8 | 22.29470467 | 114.174056 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:24:28 | 5.4 | 21.2 | 22.294704 | 114.1740323 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:24:55 | 4.5 | 1.5 | 22.29525733 | 114.1722412 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:25:01 | 5.7 | 12.3 | 22.295304 | 114.1722413 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:25:02 | 5.9 | 18.3 | 22.29531717 | 114.1722435 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:25:03 | 4.2 | 22.6 | 22.2953445 | 114.1722518 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:25:31 | 5.4 | 12.9 | 22.29631483 | 114.1722902 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:25:32 | 5.9 | 18.9 | 22.29633117 | 114.1722883 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:25:33 | 4.8 | 23.7 | 22.29636133 | 114.1722808 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:26:02 | 4.2 | 9.5 | 22.29773383 | 114.1722625 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:26:31 | 5.3 | 6.9 | 22.2979405 | 114.1722663 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:26:32 | 6.1 | 13.1 | 22.29794483 | 114.1722643 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:26:33 | 5.7 | 18.8 | 22.29795967 | 114.1722577 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:26:34 | 4 | 22.9 | 22.2979895 | 114.1722563 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:27:10 | 5 | 18.5 | 22.3003355 | 114.172023 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:27:11 | 4.1 | 22.7 | 22.3003675 | 114.1720227 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:27:44 | 4.2 | 8.2 | 22.30181083 | 114.1718695 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:27:45 | 5.3 | 13.6 | 22.30181917 | 114.171868 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:27:46 | 6.2 | 19.8 | 22.30183883 | 114.1718658 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:28:47 | 4.7 | 10.5 | 22.303031 | 114.1717695 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:28:48 | 5.6 | 16.1 | 22.30304383 | 114.1717665 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:28:49 | 5.2 | 21.4 | 22.303068 | 114.171764 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:29:17 | 4.8 | 7.7 | 22.30423383 | 114.1716723 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:29:18 | 5.6 | 13.3 | 22.30423983 | 114.1716727 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:29:19 | 6.1 | 19.4 | 22.30425883 | 114.1716762 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:29:20 | 4.8 | 24.3 | 22.3042915 | 114.1716777 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:30:02 | 4.6 | 7.2 | 22.30683067 | 114.1714948 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:30:03 | 5.6 | 12.9 | 22.30683517 | 114.171495 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:30:04 | 6.3 | 19.2 | 22.30685117 | 114.1714962 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:30:05 | 4.4 | 23.7 | 22.30688067 | 114.171494 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:30:36 | 5 | 10.3 | 22.30805933 | 114.1713417 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:30:37 | 6.3 | 16.7 | 22.30807083 | 114.1713465 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:30:38 | 4.4 | 21.1 | 22.30809517 | 114.1713492 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:31:19 | 4.6 | 8 | 22.30937083 | 114.1712233 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:31:20 | 4.5 | 12.6 | 22.30937867 | 114.1712197 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:32:37 | 5.8 | 8.4 | 22.31417867 | 114.1704105 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:32:38 | 5.3 | 13.8 | 22.31418433 | 114.1704092 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:32:39 | 5.7 | 19.6 | 22.31420367 | 114.1704068 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:33:13 | 4.3 | 9.5 | 22.31589883 | 114.1700887 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:33:14 | 5.4 | 14.9 | 22.31591 | 114.1700902 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:33:15 | 4.9 | 19.9 | 22.3159325 | 114.1700875 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:34:19 | 4.3 | 5.8 | 22.31800967 | 114.1696417 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:34:20 | 4.7 | 10.6 | 22.31801283 | 114.1696428 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:34:21 | 5.3 | 15.9 | 22.31802617 | 114.1696443 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:34:22 | 4.9 | 20.9 | 22.31805133 | 114.1696447 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:35:07 | 4.2 | 13 | 22.319211 | 114.1684735 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:35:08 | 5.2 | 18.2 | 22.319207 | 114.1684503 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:35:09 | 4.4 | 22.6 | 22.31920083 | 114.1684165 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:37:10 | 7 | 8.5 | 22.320705 | 114.1689398 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:37:11 | 6.9 | 15.5 | 22.32070433 | 114.1689397 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:37:12 | 5.1 | 20.6 | 22.32070467 | 114.1689572 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:37:46 | 4 | 9 | 22.320831 | 114.1700488 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:37:47 | 5.5 | 14.6 | 22.320838 | 114.1700597 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:37:48 | 5.3 | 19.9 | 22.320845 | 114.1700837 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:38:38 | 4.6 | 7.5 | 22.31980367 | 114.1724043 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:38:39 | 4.9 | 12.4 | 22.31981167 | 114.1724105 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:40:13 | 5.5 | 9.5 | 22.3209595 | 114.1768398 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:40:14 | 4.3 | 13.9 | 22.32096367 | 114.1768473 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:43:01 | 5 | 15.6 | 22.33318433 | 114.1787737 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:43:02 | 4.2 | 19.8 | 22.33320967 | 114.1787758 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:43:43 | 4.9 | 10.6 | 22.3358235 | 114.178901 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:43:44 | 5.1 | 15.8 | 22.33583533 | 114.1789023 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:43:45 | 4.2 | 20.1 | 22.33585933 | 114.1789075 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:45:13 | 6.1 | 10.8 | 22.339704 | 114.1791763 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:45:14 | 5.4 | 16.3 | 22.33971233 | 114.179177 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:45:15 | 4.6 | 20.9 | 22.33973733 | 114.179179 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:52:15 | 5.2 | 11.5 | 22.36876733 | 114.1788183 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:52:16 | 5.4 | 17 | 22.36875883 | 114.1787998 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:52:17 | 4.2 | 21.3 | 22.36874767 | 114.1787742 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:52:48 | 4.5 | 9.9 | 22.36847667 | 114.1780932 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:52:49 | 5.2 | 15.1 | 22.36847183 | 114.1780827 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:52:50 | 5 | 20.2 | 22.368462 | 114.178059 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:53:40 | 5.5 | 9.2 | 22.3674345 | 114.1763737 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:53:41 | 4.8 | 14.1 | 22.36743183 | 114.1763688 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:54:39 | 4.3 | 9.5 | 22.3654545 | 114.1754013 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:54:40 | 4.9 | 14.4 | 22.36544767 | 114.175391 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:55:37 | 4.8 | 6.8 | 22.36288383 | 114.1724638 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:55:38 | 5.7 | 12.6 | 22.36288467 | 114.17246 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:55:39 | 6 | 18.6 | 22.36288267 | 114.172443 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:55:40 | 4.7 | 23.4 | 22.36287967 | 114.1724105 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:56:13 | 6 | 6 | 22.3632925 | 114.1714398 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:56:14 | 7.1 | 13.2 | 22.36329483 | 114.171437 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:56:15 | 6.1 | 19.3 | 22.36330383 | 114.1714255 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:57:03 | 4.5 | 8.3 | 22.36556883 | 114.1730167 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:57:04 | 5.7 | 14 | 22.36557433 | 114.1730227 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:57:05 | 6 | 20.1 | 22.365587 | 114.1730392 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:58:18 | 4.5 | 19.9 | 22.37137883 | 114.1783322 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:59:06 | 4.5 | 4.5 | 22.37262817 | 114.180405 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:59:07 | 4.4 | 8.9 | 22.3726285 | 114.1803988 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:59:08 | 5.4 | 14.4 | 22.3726335 | 114.1804053 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:59:09 | 5.8 | 20.3 | 22.3726435 | 114.1804258 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:59:31 | 4.9 | 9.9 | 22.37313333 | 114.181245 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:59:32 | 5.8 | 15.8 | 22.3731395 | 114.1812537 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 01:59:33 | 5.2 | 21 | 22.373153 | 114.1812738 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:00:48 | 6.4 | 12.4 | 22.37450067 | 114.1851998 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:00:49 | 6 | 18.4 | 22.37449733 | 114.185216 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:00:50 | 4.2 | 22.7 | 22.37449083 | 114.1852502 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:01:20 | 4.4 | 8.2 | 22.374477 | 114.1864655 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:01:21 | 5.6 | 13.9 | 22.37447917 | 114.1864747 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:01:22 | 5.9 | 19.8 | 22.37448 | 114.1864962 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:01:46 | 4.5 | 7.9 | 22.37494217 | 114.1879167 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:01:47 | 4.6 | 12.6 | 22.37494867 | 114.1879248 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:01:48 | 5.1 | 17.8 | 22.37495933 | 114.1879427 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:01:49 | 4.4 | 22.2 | 22.37497567 | 114.1879713 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:02:52 | 4.6 | 6.8 | 22.3760805 | 114.1895745 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:02:53 | 5.5 | 12.3 | 22.37608333 | 114.1895772 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:02:54 | 4.2 | 16.5 | 22.37609583 | 114.1895893 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:03:41 | 4.3 | 7.1 | 22.3761635 | 114.1915918 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:03:42 | 5.4 | 12.6 | 22.376167 | 114.1915968 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:03:43 | 6.2 | 18.8 | 22.37617217 | 114.1916137 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:03:44 | 4.3 | 23.1 | 22.37618117 | 114.191643 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:04:09 | 4.3 | 5.4 | 22.37596183 | 114.1924832 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:04:10 | 4.8 | 10.3 | 22.37595683 | 114.1924855 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:04:46 | 5.3 | 8.3 | 22.376535 | 114.1938182 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:04:47 | 6.2 | 14.6 | 22.37653733 | 114.1938243 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:04:48 | 5.3 | 19.9 | 22.37654867 | 114.1938402 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:05:26 | 4.9 | 11.5 | 22.3775985 | 114.1952287 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:05:27 | 6.1 | 17.7 | 22.377606 | 114.1952442 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:05:28 | 4.6 | 22.4 | 22.377618 | 114.195271 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:06:34 | 5.6 | 13 | 22.38071483 | 114.1944335 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:06:35 | 4.5 | 17.6 | 22.38072583 | 114.1944213 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:07:15 | 4.6 | 12 | 22.38249467 | 114.1956827 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:07:16 | 5.4 | 17.4 | 22.382505 | 114.195692 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:07:17 | 4.3 | 21.7 | 22.38252217 | 114.1957145 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:07:37 | 4.7 | 6.7 | 22.38301183 | 114.1962008 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:07:38 | 4.9 | 11.7 | 22.3830155 | 114.1962048 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:07:39 | 6.4 | 18.1 | 22.38302667 | 114.1962152 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:07:40 | 4.4 | 22.6 | 22.38304683 | 114.196235 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:08:23 | 5.6 | 11.3 | 22.38499233 | 114.1980757 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:08:24 | 6.2 | 17.5 | 22.38499967 | 114.198085 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:08:25 | 4.5 | 22.1 | 22.38501617 | 114.1981068 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:09:06 | 5.2 | 6.4 | 22.3869315 | 114.2000052 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:09:07 | 4.5 | 11 | 22.3869365 | 114.2000085 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:09:09 | 5.3 | 20 | 22.38696817 | 114.2000347 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:10:31 | 4.5 | 5.8 | 22.3917365 | 114.2063572 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:10:32 | 5.1 | 10.9 | 22.391738 | 114.2063592 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:10:33 | 5.9 | 16.8 | 22.39174617 | 114.2063702 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:10:34 | 4.8 | 21.7 | 22.39176283 | 114.2063933 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:11:38 | 7 | 8.4 | 22.39266683 | 114.2073288 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:11:39 | 7.1 | 15.5 | 22.392668 | 114.2073303 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:11:40 | 5.1 | 20.7 | 22.39268 | 114.207342 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:14:41 | 4.9 | 8.5 | 22.40613017 | 114.221905 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:14:42 | 5.8 | 14.4 | 22.40613717 | 114.2219085 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:14:43 | 6 | 20.4 | 22.40615433 | 114.22192 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:14:44 | 4.3 | 24.8 | 22.406183 | 114.2219407 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:15:44 | 4.6 | 10.1 | 22.40537267 | 114.2240165 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:15:45 | 6 | 16.2 | 22.40536733 | 114.2240067 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:16:49 | 5.2 | 18.1 | 22.406293 | 114.2225035 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:16:50 | 4.9 | 23 | 22.40631217 | 114.2224783 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:19:15 | 5.5 | 6.5 | 22.417999 | 114.2304377 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:19:16 | 5.7 | 12.3 | 22.41800183 | 114.2304335 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:19:17 | 5.3 | 17.7 | 22.41801133 | 114.230421 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:19:50 | 6 | 6 | 22.41820433 | 114.2300888 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:19:51 | 6.5 | 12.6 | 22.41820483 | 114.2300887 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:19:52 | 5.7 | 18.3 | 22.41821083 | 114.2300775 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:19:53 | 6 | 24.4 | 22.41822483 | 114.230051 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:19:54 | 4.1 | 28.5 | 22.41824717 | 114.2300088 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:20:54 | 4.8 | 6.3 | 22.42179467 | 114.2285445 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:20:55 | 5.7 | 12 | 22.421798 | 114.2285385 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:20:56 | 6.2 | 18.3 | 22.42180817 | 114.228526 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:20:57 | 4.5 | 22.8 | 22.421829 | 114.2285035 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:22:13 | 7.4 | 13.4 | 22.42220817 | 114.2278597 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:22:14 | 5.6 | 19 | 22.42221383 | 114.2278468 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:22:48 | 4.7 | 7.2 | 22.42353433 | 114.2283013 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:22:49 | 5.3 | 12.5 | 22.42353883 | 114.2283043 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:22:50 | 6.5 | 19 | 22.423548 | 114.228321 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:22:51 | 4.3 | 23.3 | 22.42356733 | 114.228346 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:24:26 | 5.3 | 9.6 | 22.42423433 | 114.2293227 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:24:27 | 5.7 | 15.3 | 22.42423817 | 114.2293255 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:24:28 | 6 | 21.3 | 22.4242495 | 114.2293458 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:25:07 | 5.2 | 10.4 | 22.4250265 | 114.2317428 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:25:08 | 5.9 | 16.4 | 22.42502933 | 114.231754 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:25:09 | 5.5 | 21.9 | 22.42503333 | 114.2317777 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:25:46 | 6 | 6 | 22.42549517 | 114.2336722 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:25:47 | 6.4 | 12.4 | 22.425496 | 114.2336752 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:25:48 | 6.4 | 18.8 | 22.42549683 | 114.2336898 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:25:49 | 4.2 | 23.1 | 22.42550183 | 114.2337208 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:26:40 | 4.4 | 20.3 | 22.4266445 | 114.2387365 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:27:40 | 5.2 | 7.9 | 22.42582483 | 114.2398147 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:27:41 | 5.3 | 13.3 | 22.42581817 | 114.239818 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | HH.STN | 2018-07-29 01:19:18 | 2018-07-29 01:20:00 | 2018-07-29 02:27:42 | 4.6 | 18 | 22.42580117 | 114.2398278 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 01:19:18 | NULL | 2018-07-29 02:29:40 | 4.8 | 12.9 | 22.42333517 | 114.2371862 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 01:19:18 | NULL | 2018-07-29 02:29:41 | 4.5 | 17.4 | 22.42333083 | 114.2371677 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:00:17 | 4.2 | 25.1 | 22.42398067 | 114.2377897 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:01:04 | 6.9 | 9 | 22.42517067 | 114.2399628 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:01:05 | 6.7 | 15.7 | 22.4251865 | 114.2399685 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:01:06 | 6.2 | 21.9 | 22.42521033 | 114.2399635 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:01:07 | 4.6 | 26.6 | 22.425245 | 114.2399507 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:02:01 | 5.9 | 16.3 | 22.42621483 | 114.2393123 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:02:02 | 4.6 | 20.9 | 22.426227 | 114.2392918 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:03:25 | 6.1 | 7.3 | 22.4253135 | 114.234504 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:03:26 | 6.5 | 13.8 | 22.42530983 | 114.2344973 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:03:27 | 5.6 | 19.5 | 22.42530367 | 114.2344815 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:03:28 | 4.3 | 23.9 | 22.425296 | 114.2344487 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:04:11 | 4.3 | 7.7 | 22.42428183 | 114.2315148 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:04:12 | 4.6 | 12.4 | 22.42428033 | 114.2315073 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:04:13 | 4.2 | 16.6 | 22.42427667 | 114.2314883 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:05:28 | 4.3 | 8 | 22.42400317 | 114.2298645 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:05:29 | 5.7 | 13.7 | 22.42399717 | 114.2298577 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:06:44 | 6.4 | 10.9 | 22.42243483 | 114.2279768 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:06:45 | 4.9 | 15.9 | 22.42242667 | 114.2279735 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:10:40 | 5.5 | 10.3 | 22.4066995 | 114.2224572 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:10:41 | 5.7 | 16 | 22.4066905 | 114.222452 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:10:42 | 4.5 | 20.5 | 22.4066685 | 114.2224383 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:11:58 | 4.4 | 6.6 | 22.40633083 | 114.2224313 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:11:59 | 5.4 | 12.1 | 22.40633367 | 114.2224287 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:15:16 | 5.3 | 6.4 | 22.39138533 | 114.2063135 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:15:17 | 5.5 | 11.9 | 22.3913815 | 114.2063095 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:15:18 | 6 | 18 | 22.39137167 | 114.2062963 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:15:19 | 4.8 | 22.8 | 22.39135467 | 114.206272 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:17:24 | 4.5 | 23.6 | 22.38079917 | 114.1944717 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:18:03 | 4.9 | 9.6 | 22.3791825 | 114.1965875 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:18:04 | 5.5 | 15.2 | 22.3791745 | 114.1965965 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:18:05 | 4.2 | 19.4 | 22.37916067 | 114.1966172 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:18:41 | 4.5 | 4.5 | 22.377984 | 114.1959485 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:18:42 | 7.3 | 11.9 | 22.377984 | 114.1959485 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:18:43 | 6.8 | 18.8 | 22.37797867 | 114.1959438 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:18:44 | 4.4 | 23.3 | 22.377959 | 114.1959205 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:19:20 | 7.5 | 15.5 | 22.3767295 | 114.1941668 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:19:21 | 5.2 | 20.8 | 22.37671833 | 114.1941487 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:19:57 | 4.2 | 7 | 22.37553867 | 114.192085 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:19:58 | 5 | 12.1 | 22.37553717 | 114.192081 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:19:59 | 6.2 | 18.3 | 22.37553217 | 114.1920657 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:20:28 | 4.4 | 9.3 | 22.375945 | 114.1898307 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:20:29 | 4.4 | 13.7 | 22.37595317 | 114.1898222 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:21:10 | 5.2 | 8.3 | 22.37511717 | 114.1884798 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:21:11 | 6.2 | 14.5 | 22.37511417 | 114.1884745 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:21:12 | 5.7 | 20.3 | 22.37510433 | 114.188457 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:24:12 | 6.5 | 9.1 | 22.3679075 | 114.1745638 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:24:13 | 6.4 | 15.6 | 22.36790883 | 114.1745642 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:24:14 | 5.6 | 21.2 | 22.36789317 | 114.1745562 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:25:11 | 4.3 | 26.3 | 22.36339583 | 114.1713567 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:26:33 | 6.2 | 10.1 | 22.36630517 | 114.176372 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:26:34 | 5.7 | 15.8 | 22.36630683 | 114.1763785 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:27:23 | 5.6 | 7.5 | 22.36715483 | 114.1762078 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:27:24 | 6.5 | 14.1 | 22.367158 | 114.1762072 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:27:25 | 5.5 | 19.7 | 22.367175 | 114.176198 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:28:34 | 5.1 | 9.9 | 22.3687185 | 114.1784838 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:28:35 | 6 | 16 | 22.36872183 | 114.1784923 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:28:36 | 5.2 | 21.2 | 22.3687305 | 114.1785142 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:29:08 | 5.7 | 10.1 | 22.3693545 | 114.1801143 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:29:09 | 5.6 | 15.7 | 22.36935833 | 114.1801248 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:29:10 | 5.2 | 21 | 22.36936833 | 114.1801478 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:34:45 | 7.7 | 11.6 | 22.34022167 | 114.1793468 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:34:46 | 7.3 | 18.9 | 22.340212 | 114.1793417 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:34:47 | 5.8 | 24.8 | 22.34018333 | 114.1793353 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:36:05 | 4.8 | 4.8 | 22.33428017 | 114.1789755 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:36:06 | 5.6 | 10.4 | 22.33428 | 114.1789755 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:36:07 | 6.1 | 16.6 | 22.334259 | 114.1789728 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:36:08 | 5.5 | 22.1 | 22.33422867 | 114.178971 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:36:50 | 6.1 | 11.4 | 22.33273867 | 114.1788805 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:36:51 | 6.6 | 18 | 22.33272667 | 114.1788803 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:36:52 | 5.4 | 23.5 | 22.33270083 | 114.1788803 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:37:41 | 6.1 | 10.3 | 22.33053783 | 114.178737 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:37:42 | 6.3 | 16.7 | 22.33052883 | 114.1787365 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:37:43 | 5.5 | 22.2 | 22.3305055 | 114.178735 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:39:24 | 5.8 | 10.1 | 22.321782 | 114.1781917 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:39:25 | 4.8 | 15 | 22.32177317 | 114.1781953 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:39:26 | 5 | 20 | 22.32175117 | 114.1782047 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:39:50 | 7.6 | 9.5 | 22.32138483 | 114.1782557 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:39:51 | 7.4 | 16.9 | 22.321382 | 114.178253 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:39:52 | 5.6 | 22.6 | 22.32136717 | 114.178237 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:40:36 | 6.9 | 12.3 | 22.31972383 | 114.1764262 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:40:37 | 6.8 | 19.2 | 22.31971617 | 114.1764153 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:40:38 | 4.9 | 24.1 | 22.31969283 | 114.1763935 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:41:25 | 6.5 | 6.5 | 22.31873283 | 114.1756543 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:41:26 | 5.7 | 12.2 | 22.31872783 | 114.1756535 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:41:27 | 6.6 | 18.9 | 22.31871633 | 114.1756452 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:41:28 | 4.2 | 23.2 | 22.31869367 | 114.1756263 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:42:54 | 5.2 | 5.2 | 22.31662567 | 114.1741378 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:42:55 | 6.4 | 11.6 | 22.31662567 | 114.1741378 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:42:56 | 7 | 18.7 | 22.31661783 | 114.1741323 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:42:57 | 4.8 | 23.5 | 22.31659567 | 114.174117 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:44:04 | 6.5 | 7.9 | 22.31402933 | 114.1722078 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:44:05 | 6.8 | 14.8 | 22.314028 | 114.1722065 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:44:06 | 5.7 | 20.5 | 22.31401333 | 114.1721967 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:45:18 | 6.4 | 10.1 | 22.31299833 | 114.170976 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:45:19 | 6.7 | 16.9 | 22.31299917 | 114.1709658 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:45:25 | 4.1 | 23.1 | 22.31289233 | 114.170737 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:45:52 | 4.6 | 9.6 | 22.31196283 | 114.1709713 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:45:53 | 5.8 | 15.4 | 22.31195433 | 114.1709715 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:45:54 | 6 | 21.5 | 22.311933 | 114.1709758 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:47:57 | 8.2 | 16.1 | 22.29986317 | 114.1720258 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:47:58 | 5.5 | 21.7 | 22.29984717 | 114.1720265 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:49:35 | 4.4 | 7.5 | 22.29502783 | 114.1723672 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:51:09 | 6.4 | 8.4 | 22.29682433 | 114.1754775 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:51:10 | 5.6 | 14.1 | 22.2968295 | 114.1754778 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:51:11 | 4.8 | 19 | 22.29685 | 114.1754775 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:52:20 | 5.4 | 10.3 | 22.2991435 | 114.1758083 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:52:21 | 6 | 16.4 | 22.29915417 | 114.1758072 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:52:22 | 4.2 | 20.6 | 22.29917767 | 114.1758108 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:52:56 | 5.9 | 9.8 | 22.30019733 | 114.1761332 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:52:57 | 6.6 | 16.5 | 22.30020567 | 114.1761335 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:52:58 | 4.7 | 21.2 | 22.30022917 | 114.1761402 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:53:28 | 5.3 | 2.1 | 22.30276517 | 114.1770595 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:54:33 | 5.9 | 8 | 22.30279317 | 114.1770712 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:54:34 | 6.2 | 14.2 | 22.302807 | 114.1770713 |
| 76129 | | STD | 2018-07-29 | N281 | UR1625 | N281 | KAMYNG | 2018-07-29 02:59:27 | 2018-07-29 03:00:00 | 2018-07-29 03:54:35 | 4 | 18.3 | 22.30282267 | 114.1770758 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 02:59:27 | NULL | 2018-07-29 04:14:12 | 5.6 | 8.8 | 22.30218217 | 114.183704 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 02:59:27 | NULL | 2018-07-29 04:14:13 | 5.6 | 14.5 | 22.30218267 | 114.1837137 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 02:59:27 | NULL | 2018-07-29 04:14:14 | 5.1 | 19.6 | 22.30218267 | 114.1837388 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 02:59:27 | NULL | 2018-07-29 04:18:45 | 5.8 | 7.2 | 22.3334605 | 114.1788192 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 02:59:27 | NULL | 2018-07-29 04:18:46 | 6.4 | 13.7 | 22.3334655 | 114.1788173 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 02:59:27 | NULL | 2018-07-29 04:18:47 | 6.5 | 20.2 | 22.33348383 | 114.1788175 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 02:59:27 | NULL | 2018-07-29 04:27:36 | 5.2 | 11.8 | 22.37874683 | 114.2044187 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 02:59:27 | NULL | 2018-07-29 04:27:37 | 6.3 | 18.1 | 22.37876083 | 114.2044395 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 02:59:27 | NULL | 2018-07-29 04:27:38 | 5.2 | 23.3 | 22.3787805 | 114.2044685 |
| 76129 | | STD | NULL | NULL | UR1625 | NULL | NULL | 2018-07-29 02:59:27 | NULL | 2018-07-29 04:33:27 | 4.2 | 10.9 | 22.383901 | 114.2066573 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 20:15:03 | NULL | 2018-07-29 20:18:12 | 5.4 | 11.5 | 22.38329633 | 114.2135382 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 20:15:03 | NULL | 2018-07-29 20:18:13 | 5.2 | 16.8 | 22.38329867 | 114.213548 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:21:39 | 6.3 | 16.5 | 22.383095 | 114.2145377 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:21:40 | 5.5 | 22 | 22.3831045 | 114.2145157 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:21:41 | 4 | 26.1 | 22.38312117 | 114.2144765 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:22:59 | 5.5 | 14.2 | 22.38304233 | 114.210257 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:23:00 | 6.2 | 20.5 | 22.38305217 | 114.2102385 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:24:54 | 5.9 | 17.8 | 22.38535533 | 114.2071432 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:24:55 | 4.8 | 22.6 | 22.38537533 | 114.2071202 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:25:43 | 6.1 | 15.3 | 22.38654917 | 114.2057652 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:25:44 | 5 | 20.3 | 22.38656417 | 114.2057463 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:27:05 | 5.5 | 17.2 | 22.38695333 | 114.2038262 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:27:06 | 4 | 21.3 | 22.38693267 | 114.203806 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:28:25 | 6.3 | 12.4 | 22.3850065 | 114.2021045 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:28:26 | 6.4 | 18.8 | 22.38499067 | 114.2021032 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:28:27 | 4.5 | 23.4 | 22.38495867 | 114.2021015 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:29:11 | 5.3 | 14.5 | 22.3819535 | 114.2022787 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:29:12 | 4.1 | 18.7 | 22.38193417 | 114.2022922 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:30:25 | 6.8 | 16.2 | 22.380631 | 114.2032723 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:30:26 | 5 | 21.2 | 22.38064283 | 114.2033088 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:31:09 | 5.5 | 15.4 | 22.37984733 | 114.2039492 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:31:10 | 4.9 | 20.4 | 22.37983717 | 114.2039573 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:32:01 | 6.1 | 14 | 22.37915383 | 114.2044542 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:32:02 | 4.9 | 18.9 | 22.37914883 | 114.204465 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:33:18 | 5.6 | 14.9 | 22.37787933 | 114.2003715 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:33:19 | 4.9 | 19.9 | 22.37788167 | 114.2003598 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:34:07 | 5.7 | 13.4 | 22.37869283 | 114.1973107 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:34:08 | 4.6 | 18.1 | 22.37869683 | 114.1973017 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:35:23 | 6.9 | 15.6 | 22.37794583 | 114.1959123 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:35:24 | 5.4 | 21.1 | 22.3779445 | 114.195913 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:35:55 | 5.6 | 13.7 | 22.37731883 | 114.195095 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:35:56 | 5.9 | 19.6 | 22.3773135 | 114.1950863 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:35:57 | 4.1 | 23.8 | 22.3773025 | 114.195065 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:37:22 | 5.3 | 18.8 | 22.37581617 | 114.1927423 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:38:05 | 5.2 | 12 | 22.37585817 | 114.1910293 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:38:06 | 5.8 | 17.9 | 22.37585483 | 114.1910165 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:39:03 | 4.6 | 13.2 | 22.375983 | 114.1898427 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:39:56 | 5.8 | 13.4 | 22.37513417 | 114.1884728 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:39:57 | 5.5 | 18.9 | 22.37513 | 114.1884655 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:40:35 | 5.5 | 14.6 | 22.37425983 | 114.186793 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:40:36 | 5.5 | 20.1 | 22.37426033 | 114.1867758 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:41:41 | 4.6 | 13.4 | 22.37424533 | 114.185786 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:42:18 | 5.4 | 15.1 | 22.3733805 | 114.1856123 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:42:19 | 5.4 | 20.5 | 22.37336367 | 114.1856173 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:42:20 | 4.1 | 24.6 | 22.373334 | 114.1856242 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:43:30 | 5.4 | 19 | 22.37025283 | 114.1855597 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:44:14 | 5.6 | 12.9 | 22.3710485 | 114.186116 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:44:15 | 5.7 | 18.7 | 22.371054 | 114.1861237 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:44:16 | 4.4 | 23.1 | 22.37106667 | 114.186142 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:44:55 | 4 | 18.4 | 22.37004167 | 114.1878118 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:45:27 | 6.2 | 16.5 | 22.36949183 | 114.1874063 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:45:28 | 5.5 | 22 | 22.36947717 | 114.1873985 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:48:05 | 5.9 | 13.3 | 22.37216083 | 114.1801317 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:48:06 | 6 | 19.4 | 22.3721555 | 114.1801222 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:48:07 | 4.1 | 23.6 | 22.37214467 | 114.1800998 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:48:57 | 4.8 | 13 | 22.36986467 | 114.1800593 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:48:58 | 4.1 | 17.2 | 22.369854 | 114.1800652 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:50:25 | 5.3 | 12.1 | 22.368797 | 114.1788877 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:50:26 | 4.3 | 16.4 | 22.36879533 | 114.1788847 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:51:46 | 7.1 | 16 | 22.36745433 | 114.176319 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:51:47 | 5.6 | 21.6 | 22.3674475 | 114.1763133 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:52:54 | 4.1 | 12.6 | 22.36755217 | 114.174628 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:55:28 | 5.7 | 13.3 | 22.374015 | 114.1766427 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:55:29 | 5.9 | 19.3 | 22.37402233 | 114.176636 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:55:30 | 4 | 23.4 | 22.37404317 | 114.1766195 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | WN.TAU | 2018-07-29 20:15:03 | 2018-07-29 20:20:00 | 2018-07-29 20:56:33 | 4.5 | 14.1 | 22.37750917 | 114.1744912 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:12:06 | 4.3 | 13.1 | 22.37786533 | 114.174641 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:12:33 | 6.2 | 18.2 | 22.37684917 | 114.1750307 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:12:34 | 5.2 | 23.5 | 22.37683417 | 114.1750393 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:13:15 | 5 | 12 | 22.375864 | 114.1756615 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:13:16 | 5.8 | 17.9 | 22.3758525 | 114.1756452 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:13:17 | 4.4 | 22.3 | 22.37582883 | 114.1756498 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:14:38 | 5.3 | 9.4 | 22.37309267 | 114.1775578 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:14:39 | 5.7 | 15.1 | 22.37308733 | 114.1775603 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:14:40 | 6 | 21.2 | 22.3730735 | 114.1775705 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:14:41 | 4 | 25.2 | 22.37305067 | 114.1775913 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:15:27 | 6.1 | 18.5 | 22.37178583 | 114.178547 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:15:28 | 4.3 | 22.9 | 22.371773 | 114.1785648 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:18:12 | 5.6 | 13.3 | 22.36731 | 114.1758548 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:18:13 | 6.1 | 19.4 | 22.36731083 | 114.1758633 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:18:14 | 4.1 | 23.6 | 22.3673135 | 114.175888 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:19:08 | 5.2 | 13 | 22.36901317 | 114.179165 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:19:09 | 5.6 | 18.6 | 22.36901733 | 114.1791757 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:19:10 | 4.7 | 23.4 | 22.3690235 | 114.1792003 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:19:59 | 4.8 | 12.2 | 22.36929817 | 114.179912 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:20:00 | 5.5 | 17.8 | 22.36930283 | 114.1799233 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:20:09 | 4.1 | 30.6 | 22.369571 | 114.1802253 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:21:32 | 4.4 | 9.2 | 22.372619 | 114.1804077 |

| emp_no | name | depot_abbr | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:21:33 | 5.3 | 14.6 | 22.3726215 | 114.1804113 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:21:34 | 6.4 | 21 | 22.37262867 | 114.1804257 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:21:35 | 4 | 25.1 | 22.37264133 | 114.1804502 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:22:04 | 6.5 | 15.6 | 22.37314633 | 114.1812595 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:22:05 | 5.5 | 21.2 | 22.37315333 | 114.1812715 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:22:06 | 4.2 | 25.5 | 22.37317 | 114.1812975 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:23:29 | 5 | 10 | 22.37446483 | 114.18514 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:23:30 | 5.7 | 15.7 | 22.37446267 | 114.1851517 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:23:31 | 5.2 | 21 | 22.37445967 | 114.1851688 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:23:59 | 5.4 | 11.9 | 22.37337617 | 114.1855622 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:24:00 | 5.9 | 17.9 | 22.37336917 | 114.1855657 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:24:01 | 4.8 | 22.7 | 22.37335 | 114.1855717 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:25:08 | 5.8 | 18.3 | 22.37016033 | 114.1855555 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:25:09 | 4.7 | 23 | 22.3701805 | 114.1855643 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:25:45 | 5.6 | 13.7 | 22.3709785 | 114.1860858 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:25:46 | 5.9 | 19.7 | 22.37100283 | 114.1861008 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:26:22 | 5.3 | 15.2 | 22.3700135 | 114.1877912 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:26:23 | 4.7 | 20 | 22.370003 | 114.1877793 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:26:48 | 4.3 | 12.4 | 22.369758 | 114.1875452 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:26:49 | 5.5 | 17.9 | 22.36974967 | 114.1875368 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:26:50 | 4.2 | 22.1 | 22.3697335 | 114.187521 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:29:23 | 5.5 | 11.8 | 22.37425067 | 114.1854175 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:29:24 | 5.8 | 17.6 | 22.37425317 | 114.1854172 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:29:57 | 4.9 | 10.2 | 22.37447733 | 114.1864687 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:29:58 | 5.9 | 16.2 | 22.3744765 | 114.186469 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:29:59 | 5.8 | 22.1 | 22.37447733 | 114.1864862 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:31:15 | 6.7 | 12 | 22.37495333 | 114.1879327 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:31:16 | 6.7 | 18.8 | 22.37495467 | 114.1879393 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:31:17 | 4.1 | 23 | 22.37496333 | 114.1879562 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:31:18 | 4 | 27 | 22.37498067 | 114.187989 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:32:19 | 4.7 | 15.4 | 22.37608333 | 114.189586 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:33:04 | 6.6 | 14.1 | 22.37609117 | 114.191548 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:33:05 | 6 | 20.2 | 22.37609367 | 114.191555 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:33:06 | 4.3 | 24.5 | 22.37609933 | 114.1915777 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:34:20 | 4.7 | 14.9 | 22.3758775 | 114.1924735 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:34:59 | 7.2 | 17.3 | 22.37648967 | 114.1937682 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:35:00 | 5.2 | 22.5 | 22.37650083 | 114.1937808 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:35:41 | 5.8 | 17.9 | 22.37728383 | 114.1947608 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:35:42 | 5.3 | 23.2 | 22.377296 | 114.1947818 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:36:52 | 5.2 | 21.6 | 22.37783967 | 114.1955615 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:37:44 | 5.2 | 12.6 | 22.37876583 | 114.1976657 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:37:45 | 5.8 | 18.4 | 22.37876017 | 114.1976735 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:37:46 | 4.4 | 22.9 | 22.37875183 | 114.1976937 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:39:06 | 4.2 | 29.8 | 22.37896167 | 114.2044002 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:39:41 | 6 | 12.5 | 22.38013267 | 114.203467 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:39:42 | 6.1 | 18.7 | 22.38013983 | 114.2034635 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:39:43 | 4.5 | 23.3 | 22.38015783 | 114.2034503 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:40:44 | 5.2 | 14.3 | 22.3847635 | 114.2019478 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:40:45 | 6 | 20.3 | 22.38477567 | 114.2019485 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:40:46 | 4.1 | 24.5 | 22.38479767 | 114.2019497 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:41:34 | 4.7 | 9.5 | 22.38630817 | 114.2028323 |

| emp_no | name | depot_abbrev | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|--------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:41:35 | 4.6 | 14.1 | 22.38631317 | 114.2028428 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:42:05 | 5.9 | 11.6 | 22.38663583 | 114.2031672 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:42:06 | 5.3 | 16.9 | 22.3866395 | 114.2031702 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:42:07 | 5.7 | 22.7 | 22.38665167 | 114.2031823 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:43:20 | 5.7 | 11.1 | 22.38710867 | 114.205447 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:43:22 | 5 | 22.5 | 22.38709933 | 114.2054555 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:43:50 | 5.4 | 12.1 | 22.38644833 | 114.206193 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:43:52 | 5 | 23.7 | 22.38642383 | 114.2062118 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:44:39 | 7 | 17.5 | 22.3859155 | 114.2067005 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:44:40 | 5.2 | 22.7 | 22.385909 | 114.2067075 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:47:11 | 5.7 | 15.5 | 22.384345 | 114.208434 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:47:12 | 5.8 | 21.3 | 22.38433417 | 114.2084443 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:47:13 | 4.1 | 25.5 | 22.3843135 | 114.2084647 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:48:39 | 5.9 | 15.6 | 22.38338883 | 114.213882 |
| 76129 | | STD | 2018-07-29 | N281 | UR2646 | 82K | MEILAM | 2018-07-29 21:08:56 | 2018-07-29 21:10:00 | 2018-07-29 21:48:40 | 5 | 20.6 | 22.38338933 | 114.2138968 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:03:06 | 5.7 | 13.9 | 22.38309383 | 114.2144775 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:03:07 | 5.9 | 19.9 | 22.3830965 | 114.2144687 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:03:08 | 5.5 | 25.4 | 22.38310583 | 114.2144462 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:04:19 | 5 | 12.7 | 22.383049 | 114.2103078 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:04:20 | 5.7 | 18.5 | 22.3830565 | 114.2102948 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:10:17 | 5.7 | 13.3 | 22.419459 | 114.2323022 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:10:18 | 5.3 | 18.6 | 22.41945733 | 114.2323023 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:10:19 | 4.1 | 22.8 | 22.41947367 | 114.232303 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:10:20 | 4.1 | 26.9 | 22.4195075 | 114.2323058 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:11:22 | 5.6 | 20.2 | 22.42148583 | 114.2324685 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:11:23 | 4.3 | 24.6 | 22.42151083 | 114.2324757 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:11:30 | 4.4 | 30.7 | 22.42184617 | 114.232636 |
| 76129 | | STD | NULL | NULL | UR2646 | NULL | NULL | 2018-07-29 21:08:56 | NULL | 2018-07-29 22:12:41 | 4.2 | 15 | 22.422867 | 114.2356333 |

| emp_no | name | depot_abbrev | operating_date | route_no | bus_no | operating_route | departure_from | octopus_tap_time | departure_time | operating_time | ba_value | speed | gps_pos_lat | gps_pos_long |
|--------|------|--------------|----------------|----------|--------|-----------------|----------------|---------------------|---------------------|---------------------|----------|-------|-------------|--------------|
| 3965 | | KBD | NULL | NULL | LB6946 | NULL | NULL | 2018-07-24 06:04:50 | NULL | 2018-07-24 06:05:45 | -9.5 | 5.8 | 22.30777217 | 114.2217785 |
| 3965 | | KBD | 2018-07-24 | 23 | LB6946 | 23 | KT.FRY | 2018-07-24 06:04:50 | 2018-07-24 06:10:00 | 2018-07-24 06:12:55 | -8.7 | 3.4 | 22.30785817 | 114.2223472 |
| 3965 | | KBD | 2018-07-24 | 23 | LB6946 | 23 | KT.FRY | 2018-07-24 06:04:50 | 2018-07-24 06:10:00 | 2018-07-24 06:16:24 | -8.7 | 20.7 | 22.31187283 | 114.2273412 |
| 3965 | | KBD | 2018-07-24 | 23 | LB6946 | 23 | KT.FRY | 2018-07-24 06:04:50 | 2018-07-24 06:10:00 | 2018-07-24 06:18:41 | -8.5 | 0 | 22.31646783 | 114.2263077 |
| 3965 | | KBD | 2018-07-24 | 23 | LB6946 | 23 | KT.FRY | 2018-07-24 06:04:50 | 2018-07-24 06:10:00 | 2018-07-24 06:20:00 | -9.5 | 0 | 22.31747117 | 114.2267672 |
| 3965 | | KBD | 2018-07-24 | 23 | LB6946 | 23 | KT.FRY | 2018-07-24 06:04:50 | 2018-07-24 06:10:00 | 2018-07-24 06:30:16 | -8.5 | 14.2 | 22.33206467 | 114.2226393 |
| 3965 | | KBD | 2018-07-24 | 23 | LB6946 | 23 | KT.FRY | 2018-07-24 06:57:41 | 2018-07-24 07:00:00 | 2018-07-24 07:08:04 | -8.5 | 0 | 22.31730517 | 114.2266008 |
| 3965 | | KBD | 2018-07-24 | 23 | LB6946 | 23 | KT.FRY | 2018-07-24 06:57:41 | 2018-07-24 07:00:00 | 2018-07-24 07:36:21 | -8.5 | 8.8 | 22.3095135 | 114.2236983 |
| 3965 | | KBD | 2018-07-24 | 23 | LB6946 | 23 | KT.FRY | 2018-07-24 08:38:17 | 2018-07-24 08:40:00 | 2018-07-24 08:46:43 | -8.5 | 0 | 22.30962017 | 114.2288163 |
| 3965 | | KBD | 2018-07-24 | 23 | LB6946 | 23 | KT.FRY | 2018-07-24 08:38:17 | 2018-07-24 08:40:00 | 2018-07-24 09:18:16 | -9.2 | 0 | 22.32084567 | 114.2267118 |
| 3965 | | KBD | 2018-07-24 | 23 | LB6946 | 23 | KT.FRY | 2018-07-24 08:38:17 | 2018-07-24 08:40:00 | 2018-07-24 09:25:43 | -8.8 | 9.5 | 22.31256917 | 114.2266113 |
| 3965 | | KBD | 2018-07-24 | 23 | LB6946 | 23 | KT.FRY | 2018-07-24 11:47:21 | 2018-07-24 11:50:00 | 2018-07-24 11:51:28 | -8.5 | 11.2 | 22.3081275 | 114.2228268 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 06:04:29 | 2018-07-25 06:10:00 | 2018-07-25 06:12:21 | -9.5 | 22 | 22.30845 | 114.2260463 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 06:04:29 | 2018-07-25 06:10:00 | 2018-07-25 06:12:22 | -9.5 | 12.5 | 22.30848483 | 114.2260898 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 06:04:29 | 2018-07-25 06:10:00 | 2018-07-25 06:12:23 | -8.4 | 4.1 | 22.30850283 | 114.2261152 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 06:04:29 | 2018-07-25 06:10:00 | 2018-07-25 06:14:02 | -8.4 | 18 | 22.30919533 | 114.2285147 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 06:04:29 | 2018-07-25 06:10:00 | 2018-07-25 06:15:04 | -8.7 | 30.2 | 22.31172233 | 114.226831 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 06:04:29 | 2018-07-25 06:10:00 | 2018-07-25 06:20:48 | -8.5 | 6.4 | 22.321937 | 114.2260995 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 06:04:29 | 2018-07-25 06:10:00 | 2018-07-25 06:27:55 | -8.5 | 17.6 | 22.33155333 | 114.2263278 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 08:38:56 | 2018-07-25 08:40:00 | 2018-07-25 08:51:13 | -9.5 | 20.3 | 22.3170695 | 114.2265332 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 08:38:56 | 2018-07-25 08:40:00 | 2018-07-25 09:09:04 | -8.8 | 15.9 | 22.33203317 | 114.2226285 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 11:41:35 | 2018-07-25 11:45:00 | 2018-07-25 11:46:16 | -8.7 | 11.5 | 22.30855683 | 114.2226093 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 14:44:11 | 2018-07-25 14:45:00 | 2018-07-25 15:18:11 | -8.4 | 23.1 | 22.32422233 | 114.2257988 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 14:44:11 | 2018-07-25 14:45:00 | 2018-07-25 15:18:12 | -9.2 | 13.9 | 22.32419467 | 114.2258515 |
| 3965 | | KBD | 2018-07-25 | 23 | LF4063 | 23 | KT.FRY | 2018-07-25 14:44:11 | 2018-07-25 14:45:00 | 2018-07-25 15:31:25 | -9.2 | 14.2 | 22.3088035 | 114.2229432 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:09:04 | 2018-07-26 06:10:00 | 2018-07-26 06:12:22 | -8.3 | 0 | 22.30853583 | 114.2261182 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:09:04 | 2018-07-26 06:10:00 | 2018-07-26 06:14:29 | -9 | 0.6 | 22.30934667 | 114.2285573 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:09:04 | 2018-07-26 06:10:00 | 2018-07-26 06:15:58 | -8 | 8 | 22.311584 | 114.226521 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:09:04 | 2018-07-26 06:10:00 | 2018-07-26 06:19:14 | -9 | 0 | 22.31709983 | 114.2262068 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:09:04 | 2018-07-26 06:10:00 | 2018-07-26 06:19:50 | -9.3 | 0 | 22.31749283 | 114.2264315 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:09:04 | 2018-07-26 06:10:00 | 2018-07-26 06:20:15 | -8.4 | 11.6 | 22.31816283 | 114.226749 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:09:04 | 2018-07-26 06:10:00 | 2018-07-26 06:21:46 | -8.7 | 0 | 22.32198217 | 114.2259902 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:09:04 | 2018-07-26 06:10:00 | 2018-07-26 06:36:53 | -8.7 | 0 | 22.31727617 | 114.226743 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:09:04 | 2018-07-26 06:10:00 | 2018-07-26 06:38:39 | -8.3 | 0 | 22.31310833 | 114.2264597 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:09:04 | 2018-07-26 06:10:00 | 2018-07-26 06:40:02 | -9 | 12.2 | 22.3113655 | 114.2259722 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:09:04 | 2018-07-26 06:10:00 | 2018-07-26 06:45:15 | -8.3 | 0 | 22.3078455 | 114.2218838 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:57:52 | 2018-07-26 07:00:00 | 2018-07-26 07:03:32 | -8.3 | 1 | 22.30932067 | 114.2285502 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:57:52 | 2018-07-26 07:00:00 | 2018-07-26 07:03:42 | -8.7 | 8.7 | 22.30933233 | 114.2285545 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:57:52 | 2018-07-26 07:00:00 | 2018-07-26 07:07:56 | -8.3 | 0 | 22.31709333 | 114.2266438 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:57:52 | 2018-07-26 07:00:00 | 2018-07-26 07:09:23 | -9 | 0 | 22.320053 | 114.2271163 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:57:52 | 2018-07-26 07:00:00 | 2018-07-26 07:11:29 | -9.3 | 0 | 22.32195233 | 114.2261327 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:57:52 | 2018-07-26 07:00:00 | 2018-07-26 07:13:44 | -9.6 | 0 | 22.3239535 | 114.2258645 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:57:52 | 2018-07-26 07:00:00 | 2018-07-26 07:20:30 | -8 | 11.2 | 22.33304433 | 114.2242433 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:57:52 | 2018-07-26 07:00:00 | 2018-07-26 07:25:03 | -8.7 | 0 | 22.32881867 | 114.2253647 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:57:52 | 2018-07-26 07:00:00 | 2018-07-26 07:38:27 | -9.3 | 12.8 | 22.309883 | 114.2240148 |

| | | | | | | | | | | | | | | |
|------|--|-----|------------|----|--------|----|--------|---------------------|---------------------|---------------------|-------|------|-------------|-------------|
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:57:52 | 2018-07-26 07:00:00 | 2018-07-26 07:39:07 | -9.3 | 0 | 22.309737 | 114.2235477 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 06:57:52 | 2018-07-26 07:00:00 | 2018-07-26 07:40:40 | -10 | 0 | 22.30700583 | 114.2220938 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 07:45:51 | 2018-07-26 07:48:00 | 2018-07-26 07:49:16 | -9.6 | 0 | 22.307599 | 114.2233383 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 07:45:51 | 2018-07-26 07:48:00 | 2018-07-26 07:52:10 | -9.3 | 0 | 22.30921283 | 114.2285327 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 07:45:51 | 2018-07-26 07:48:00 | 2018-07-26 07:57:17 | -8.3 | 10.3 | 22.31999417 | 114.2271702 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 07:45:51 | 2018-07-26 07:48:00 | 2018-07-26 08:15:03 | -9.9 | 13.8 | 22.3290345 | 114.2256123 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 07:45:51 | 2018-07-26 07:48:00 | 2018-07-26 08:18:43 | -11.6 | 0 | 22.32185933 | 114.2264037 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 07:45:51 | 2018-07-26 07:48:00 | 2018-07-26 08:19:37 | -8.1 | 11.6 | 22.320884 | 114.2268338 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 07:45:51 | 2018-07-26 07:48:00 | 2018-07-26 08:30:47 | -9.6 | 0 | 22.30700167 | 114.2223413 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 07:45:51 | 2018-07-26 07:48:00 | 2018-07-26 08:31:53 | -10 | 0 | 22.30783983 | 114.2217833 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 08:46:06 | -10 | 10 | 22.30904817 | 114.2284308 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 08:48:37 | -8.2 | 3.9 | 22.3116665 | 114.2269645 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 08:48:46 | -9 | 11.9 | 22.31171417 | 114.2268833 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 08:50:01 | -8.3 | 1.3 | 22.31190867 | 114.2264757 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 08:55:57 | -8.3 | 1.3 | 22.32099483 | 114.226463 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 09:03:15 | -9.3 | 0 | 22.3263995 | 114.2268085 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 09:05:22 | -9.6 | 0 | 22.32879117 | 114.2269782 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 09:18:14 | -8.7 | 0 | 22.32121283 | 114.22658 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 09:24:15 | -9.3 | 0 | 22.31309533 | 114.2264565 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 09:25:35 | -9 | 12.2 | 22.31121783 | 114.2256848 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 09:27:03 | -9.2 | 12.2 | 22.30995833 | 114.2241423 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 09:27:29 | -9.6 | 0 | 22.30967183 | 114.2238438 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 08:38:31 | 2018-07-26 08:40:00 | 2018-07-26 09:31:35 | -8.7 | 0 | 22.30726633 | 114.2217668 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 09:44:48 | 2018-07-26 09:45:00 | 2018-07-26 09:45:05 | -8.7 | 8.7 | 22.30783567 | 114.2218448 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 09:44:48 | 2018-07-26 09:45:00 | 2018-07-26 09:45:06 | -8.7 | 0 | 22.30783667 | 114.2218467 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 09:44:48 | 2018-07-26 09:45:00 | 2018-07-26 09:46:15 | -8.3 | 0 | 22.30902067 | 114.2224107 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 09:44:48 | 2018-07-26 09:45:00 | 2018-07-26 09:48:48 | -9.2 | 12.2 | 22.30776817 | 114.2232335 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 09:44:48 | 2018-07-26 09:45:00 | 2018-07-26 09:50:37 | -9 | 1 | 22.30855717 | 114.2261983 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 09:44:48 | 2018-07-26 09:45:00 | 2018-07-26 10:12:03 | -10 | 0.6 | 22.331272 | 114.2222443 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 09:44:48 | 2018-07-26 09:45:00 | 2018-07-26 10:14:17 | -8 | 0 | 22.32943167 | 114.2258848 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 09:44:48 | 2018-07-26 09:45:00 | 2018-07-26 10:18:05 | -10 | 0 | 22.32233033 | 114.2260357 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 09:44:48 | 2018-07-26 09:45:00 | 2018-07-26 10:19:38 | -8 | 0 | 22.32222533 | 114.2260712 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 09:44:48 | 2018-07-26 09:45:00 | 2018-07-26 10:30:54 | -9 | 0 | 22.30978767 | 114.2240215 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 11:47:40 | -8.3 | 0 | 22.3084965 | 114.2261622 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 11:48:10 | -9.6 | 0 | 22.30914083 | 114.2272133 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 11:53:54 | -9.6 | 0 | 22.31463517 | 114.2256513 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 11:55:10 | -9 | 0 | 22.317237 | 114.2264592 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 12:03:29 | -10 | 0 | 22.32628067 | 114.2270172 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 12:03:46 | -9.3 | 0 | 22.32632467 | 114.226793 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 12:05:18 | -8.7 | 3.2 | 22.32800883 | 114.2267882 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 12:05:42 | -10 | 0 | 22.32883333 | 114.2268843 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 12:08:27 | -9 | 0 | 22.33217133 | 114.2225867 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 12:13:53 | -8.7 | 0 | 22.32156267 | 114.2264102 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 12:14:26 | -9.6 | 0 | 22.32075817 | 114.2267837 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 11:38:03 | 2018-07-26 11:45:00 | 2018-07-26 12:16:47 | -8.7 | 0 | 22.3167925 | 114.2264785 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 12:47:13 | -8.7 | 0 | 22.30849917 | 114.2262125 |

| | | | | | | | | | | | | | | |
|------|--|-----|------------|----|--------|----|--------|---------------------|---------------------|---------------------|-------|------|-------------|-------------|
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 12:52:36 | -10 | 10.3 | 22.311893 | 114.2266272 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 12:53:19 | -9.3 | 0 | 22.31362083 | 114.2260202 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 13:02:35 | -10 | 0 | 22.32408533 | 114.2284425 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 13:05:44 | -8.7 | 0 | 22.326372 | 114.2269372 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 13:10:20 | -9 | 0 | 22.33191817 | 114.2257997 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 13:15:21 | -8.2 | 9 | 22.32882117 | 114.2254013 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 13:19:39 | -9.6 | 0 | 22.32074333 | 114.2267978 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 13:21:39 | -8.1 | 11.6 | 22.3187735 | 114.2274217 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 13:23:06 | -9.6 | 0 | 22.316789 | 114.2264753 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 13:27:13 | -8.7 | 0 | 22.3098175 | 114.2240053 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 12:43:25 | 2018-07-26 12:45:00 | 2018-07-26 13:30:20 | -8.7 | 0 | 22.307874 | 114.2218998 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 13:47:56 | -9.3 | 0 | 22.3085535 | 114.2262117 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 13:50:31 | -8.4 | 11.6 | 22.31132317 | 114.2276398 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 13:57:09 | -9 | 0 | 22.31980667 | 114.227726 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 13:58:45 | -9 | 0 | 22.32219617 | 114.2263813 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 14:07:31 | -8.3 | 0 | 22.33191233 | 114.2257482 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 14:12:20 | -9 | 39.5 | 22.32970067 | 114.2259343 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 14:12:21 | -9.2 | 30.2 | 22.32960967 | 114.2259152 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 14:12:22 | -10 | 20.2 | 22.329542 | 114.2259002 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 14:12:23 | -9 | 11.2 | 22.32949867 | 114.2258898 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 14:14:46 | -8.3 | 0 | 22.3241665 | 114.2259448 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 14:16:12 | -9 | 0 | 22.321926 | 114.2262537 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 14:20:45 | -9.6 | 0 | 22.317247 | 114.2267348 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 14:23:57 | -9 | 0 | 22.3117845 | 114.2263682 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 13:43:22 | 2018-07-26 13:45:00 | 2018-07-26 14:29:15 | -8.3 | 8.3 | 22.30938717 | 114.2235018 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 14:43:48 | 2018-07-26 14:45:00 | 2018-07-26 14:45:31 | -10 | 0 | 22.30833033 | 114.2218247 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 14:43:48 | 2018-07-26 14:45:00 | 2018-07-26 14:46:27 | -12.5 | 0 | 22.3084695 | 114.2225082 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 14:43:48 | 2018-07-26 14:45:00 | 2018-07-26 14:46:36 | -10.3 | 0 | 22.30844917 | 114.2224735 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 14:43:48 | 2018-07-26 14:45:00 | 2018-07-26 14:52:16 | -11.6 | 0 | 22.31064667 | 114.2283623 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 14:43:48 | 2018-07-26 14:45:00 | 2018-07-26 14:54:12 | -13.2 | 0 | 22.31154717 | 114.2271208 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 14:43:48 | 2018-07-26 14:45:00 | 2018-07-26 15:07:24 | -8.3 | 0 | 22.32637283 | 114.2267035 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 14:43:48 | 2018-07-26 14:45:00 | 2018-07-26 15:10:22 | -9.7 | 0.3 | 22.33198767 | 114.2256932 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 14:43:48 | 2018-07-26 14:45:00 | 2018-07-26 15:21:29 | -9.3 | 9.3 | 22.32069067 | 114.2267653 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 14:43:48 | 2018-07-26 14:45:00 | 2018-07-26 15:27:58 | -9 | 0 | 22.31245817 | 114.2269667 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 14:43:48 | 2018-07-26 14:45:00 | 2018-07-26 15:31:59 | -8.3 | 0 | 22.309509 | 114.2246293 |
| 3965 | | KBD | 2018-07-26 | 23 | ME9378 | 23 | KT.FRY | 2018-07-26 14:43:48 | 2018-07-26 14:45:00 | 2018-07-26 15:33:12 | -9 | 0 | 22.30897333 | 114.2240342 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:00:54 | 2018-07-27 06:10:00 | 2018-07-27 06:12:06 | -8.6 | 14.1 | 22.308495 | 114.226123 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:00:54 | 2018-07-27 06:10:00 | 2018-07-27 06:12:37 | -9.6 | 1 | 22.3091485 | 114.227236 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:00:54 | 2018-07-27 06:10:00 | 2018-07-27 06:18:58 | -9.3 | 0 | 22.31790467 | 114.2270205 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:00:54 | 2018-07-27 06:10:00 | 2018-07-27 06:28:59 | -10 | 0 | 22.330845 | 114.2218653 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:00:54 | 2018-07-27 06:10:00 | 2018-07-27 06:30:43 | -9.3 | 0 | 22.328847 | 114.225414 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:00:54 | 2018-07-27 06:10:00 | 2018-07-27 06:34:39 | -9 | 12.5 | 22.31682 | 114.2265147 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:00:54 | 2018-07-27 06:10:00 | 2018-07-27 06:35:51 | -8 | 12.5 | 22.31312467 | 114.2264133 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:00:54 | 2018-07-27 06:10:00 | 2018-07-27 06:37:15 | -9 | 0 | 22.309853 | 114.223992 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:00:54 | 2018-07-27 06:10:00 | 2018-07-27 06:37:54 | -9.4 | 0.6 | 22.30946917 | 114.2234988 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:00:54 | 2018-07-27 06:10:00 | 2018-07-27 06:40:08 | -8.1 | 11.6 | 22.30775583 | 114.2217582 |

| | | | | | | | | | | | | | | |
|------|--|-----|------------|----|--------|----|--------|---------------------|---------------------|---------------------|-------|------|-------------|-------------|
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:58:28 | 2018-07-27 07:00:00 | 2018-07-27 07:03:08 | -8.7 | 0 | 22.308855 | 114.2283498 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:58:28 | 2018-07-27 07:00:00 | 2018-07-27 07:03:25 | -9.3 | 0 | 22.30897683 | 114.2284233 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:58:28 | 2018-07-27 07:00:00 | 2018-07-27 07:08:32 | -8 | 12.2 | 22.31792517 | 114.2269173 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:58:28 | 2018-07-27 07:00:00 | 2018-07-27 07:18:31 | -9.3 | 0 | 22.3329855 | 114.2242548 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 06:58:28 | 2018-07-27 07:00:00 | 2018-07-27 07:25:25 | -9.7 | 13.2 | 22.32088467 | 114.2267067 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 07:50:11 | -9 | 0 | 22.3088395 | 114.2266583 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 07:51:37 | -10 | 0 | 22.309036 | 114.2284067 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 07:55:57 | -8.3 | 0 | 22.31694267 | 114.2267712 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 08:07:14 | -9.6 | 9.6 | 22.32867417 | 114.2269918 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 08:11:47 | -9 | 0 | 22.3329965 | 114.2242675 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 08:16:18 | -10 | 0 | 22.32893167 | 114.2255238 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 08:19:54 | -8.3 | 0 | 22.32370017 | 114.2259063 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 08:21:36 | -8.7 | 0 | 22.32221733 | 114.2260615 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 08:22:25 | -8.7 | 0 | 22.32186633 | 114.226226 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 08:22:50 | -8.3 | 0 | 22.32184733 | 114.2262383 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 08:24:08 | -8.3 | 0 | 22.3207075 | 114.2267728 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 08:28:09 | -8.7 | 0 | 22.31709333 | 114.2266395 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 08:31:54 | -9.3 | 9.3 | 22.31098533 | 114.2251895 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 07:45:43 | 2018-07-27 07:48:00 | 2018-07-27 08:36:57 | -9.3 | 0 | 22.307859 | 114.2218652 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 08:39:53 | 2018-07-27 08:42:00 | 2018-07-27 08:43:39 | -8.3 | 0 | 22.30896933 | 114.2222268 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 08:39:53 | 2018-07-27 08:42:00 | 2018-07-27 08:44:32 | -10 | 0 | 22.30814 | 114.223125 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 08:39:53 | 2018-07-27 08:42:00 | 2018-07-27 08:55:46 | -8.7 | 0 | 22.32194533 | 114.2261215 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 08:39:53 | 2018-07-27 08:42:00 | 2018-07-27 09:05:58 | -9 | 0 | 22.3330345 | 114.2242845 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 08:39:53 | 2018-07-27 08:42:00 | 2018-07-27 09:10:06 | -8.2 | 12.2 | 22.3288295 | 114.2253933 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 08:39:53 | 2018-07-27 08:42:00 | 2018-07-27 09:13:21 | -9 | 12.2 | 22.32173833 | 114.2262817 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 08:39:53 | 2018-07-27 08:42:00 | 2018-07-27 09:13:55 | -8.4 | 11.6 | 22.32081267 | 114.2267273 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 08:39:53 | 2018-07-27 08:42:00 | 2018-07-27 09:14:56 | -8.3 | 0 | 22.3185205 | 114.227241 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 08:39:53 | 2018-07-27 08:42:00 | 2018-07-27 09:17:09 | -8.7 | 0 | 22.31688867 | 114.22648 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 08:39:53 | 2018-07-27 08:42:00 | 2018-07-27 09:23:20 | -9.6 | 0 | 22.3089135 | 114.2226507 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 08:39:53 | 2018-07-27 08:42:00 | 2018-07-27 09:23:22 | -8 | 8 | 22.30891117 | 114.2226475 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 09:44:40 | 2018-07-27 09:45:00 | 2018-07-27 09:49:43 | -10 | 0 | 22.30884033 | 114.226881 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 09:44:40 | 2018-07-27 09:45:00 | 2018-07-27 10:02:07 | -8.6 | 1 | 22.3223405 | 114.2259315 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 09:44:40 | 2018-07-27 09:45:00 | 2018-07-27 10:07:15 | -9.6 | 0 | 22.32638017 | 114.2268018 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 09:44:40 | 2018-07-27 09:45:00 | 2018-07-27 10:07:51 | -9.6 | 12.5 | 22.32649017 | 114.2265878 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 09:44:40 | 2018-07-27 09:45:00 | 2018-07-27 10:08:56 | -9 | 0 | 22.3288105 | 114.2269862 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 09:44:40 | 2018-07-27 09:45:00 | 2018-07-27 10:11:32 | -10.6 | 0 | 22.33302983 | 114.2242653 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 09:44:40 | 2018-07-27 09:45:00 | 2018-07-27 10:19:52 | -9.3 | 0 | 22.32175817 | 114.2263033 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 09:44:40 | 2018-07-27 09:45:00 | 2018-07-27 10:26:04 | -8 | 12.2 | 22.31254983 | 114.2266567 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 09:44:40 | 2018-07-27 09:45:00 | 2018-07-27 10:28:07 | -9.3 | 0 | 22.309069 | 114.222863 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 11:37:17 | 2018-07-27 11:45:00 | 2018-07-27 11:50:47 | -10 | 0 | 22.30934733 | 114.228492 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 11:37:17 | 2018-07-27 11:45:00 | 2018-07-27 11:54:10 | -9.5 | 1.6 | 22.31172333 | 114.2270513 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 11:37:17 | 2018-07-27 11:45:00 | 2018-07-27 12:06:40 | -8.3 | 0 | 22.324041 | 114.2283832 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 11:37:17 | 2018-07-27 11:45:00 | 2018-07-27 12:07:31 | -10 | 0 | 22.32462067 | 114.2289422 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 11:37:17 | 2018-07-27 11:45:00 | 2018-07-27 12:20:31 | -8.6 | 16.7 | 22.3227845 | 114.2257867 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 11:37:17 | 2018-07-27 11:45:00 | 2018-07-27 12:20:32 | -9.6 | 7.1 | 22.32275533 | 114.2258033 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 11:37:17 | 2018-07-27 11:45:00 | 2018-07-27 12:23:33 | -8.7 | 0 | 22.32073267 | 114.2267677 |

| | | | | | | | | | | | | | | |
|------|--|-----|------------|------|--------|------|--------|---------------------|---------------------|---------------------|------|------|-------------|-------------|
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 11:37:17 | 2018-07-27 11:45:00 | 2018-07-27 12:28:00 | -9 | 0 | 22.31252417 | 114.2266707 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 11:37:17 | 2018-07-27 11:45:00 | 2018-07-27 12:29:43 | -10 | 10 | 22.31009417 | 114.2244057 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 12:43:42 | 2018-07-27 12:45:00 | 2018-07-27 12:54:31 | -9.3 | 0 | 22.31660567 | 114.2262058 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 12:43:42 | 2018-07-27 12:45:00 | 2018-07-27 12:57:37 | -9 | 13.5 | 22.3196775 | 114.2272157 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 12:43:42 | 2018-07-27 12:45:00 | 2018-07-27 12:59:36 | -8.7 | 0 | 22.322014 | 114.2260972 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 12:43:42 | 2018-07-27 12:45:00 | 2018-07-27 13:14:01 | -8.3 | 41.4 | 22.32434417 | 114.2256228 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 12:43:42 | 2018-07-27 12:45:00 | 2018-07-27 13:15:50 | -10 | 0 | 22.32089583 | 114.2267167 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 12:43:42 | 2018-07-27 12:45:00 | 2018-07-27 13:19:37 | -10 | 0 | 22.313107 | 114.2264637 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 12:43:42 | 2018-07-27 12:45:00 | 2018-07-27 13:23:28 | -10 | 0 | 22.3071165 | 114.221845 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 12:43:42 | 2018-07-27 12:45:00 | 2018-07-27 13:24:05 | -9.2 | 13.2 | 22.30776117 | 114.2217463 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 12:43:42 | 2018-07-27 12:45:00 | 2018-07-27 13:24:06 | -9 | 4.2 | 22.3077705 | 114.2217902 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 13:42:37 | 2018-07-27 13:45:00 | 2018-07-27 13:50:35 | -10 | 0 | 22.30887017 | 114.2277772 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 13:42:37 | 2018-07-27 13:45:00 | 2018-07-27 13:54:03 | -10 | 0 | 22.31117633 | 114.2274343 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 13:42:37 | 2018-07-27 13:45:00 | 2018-07-27 13:55:48 | -9 | 9 | 22.31195733 | 114.2264158 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 13:42:37 | 2018-07-27 13:45:00 | 2018-07-27 13:55:49 | -9 | 0 | 22.31196983 | 114.2264035 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 13:42:37 | 2018-07-27 13:45:00 | 2018-07-27 13:57:27 | -8.7 | 0 | 22.31481417 | 114.225432 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 13:42:37 | 2018-07-27 13:45:00 | 2018-07-27 14:03:33 | -9 | 0 | 22.3221535 | 114.226033 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 13:42:37 | 2018-07-27 13:45:00 | 2018-07-27 14:14:46 | -9 | 0 | 22.33287133 | 114.224123 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 13:42:37 | 2018-07-27 13:45:00 | 2018-07-27 14:21:51 | -8.4 | 1.9 | 22.32156433 | 114.2264422 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 13:42:37 | 2018-07-27 13:45:00 | 2018-07-27 14:24:50 | -9 | 0 | 22.31683167 | 114.2266023 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 13:42:37 | 2018-07-27 13:45:00 | 2018-07-27 14:28:15 | -9.3 | 12.5 | 22.31102367 | 114.2256018 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 13:42:37 | 2018-07-27 13:45:00 | 2018-07-27 14:31:35 | -10 | 14.8 | 22.30779333 | 114.2217962 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 14:47:29 | -8.7 | 0 | 22.307449 | 114.2235027 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 14:52:32 | -8.1 | 13.2 | 22.309498 | 114.2288555 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 14:53:14 | -8.3 | 0 | 22.31012183 | 114.229412 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 14:55:14 | -9.3 | 0 | 22.31107 | 114.227911 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 14:56:40 | -10 | 0 | 22.31137967 | 114.2269985 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 14:58:48 | -8.3 | 0 | 22.31398083 | 114.2252138 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 15:07:26 | -10 | 0 | 22.3263625 | 114.2267622 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 15:12:20 | -8.7 | 12.2 | 22.33222067 | 114.2227028 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 15:12:40 | -8.7 | 0 | 22.33192817 | 114.2225402 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 15:16:46 | -8.7 | 0 | 22.32421317 | 114.225824 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 15:20:30 | -9.3 | 9.3 | 22.31864867 | 114.2273575 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 15:21:30 | -9.6 | 0 | 22.3167935 | 114.2264862 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 15:25:19 | -8.7 | 0 | 22.310977 | 114.2253553 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 15:25:35 | -8.9 | 3.9 | 22.31094133 | 114.2253123 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 15:25:38 | -9.3 | 0 | 22.310929 | 114.2252792 |
| 3965 | | KBD | 2018-07-27 | 23 | ME9378 | 23 | KT.FRY | 2018-07-27 14:43:08 | 2018-07-27 14:45:00 | 2018-07-27 15:26:20 | -10 | 0 | 22.30965933 | 114.2245148 |
| 3965 | | KBD | NULL | NULL | ME9378 | NULL | NULL | 2018-07-28 06:01:51 | NULL | 2018-07-28 06:04:00 | -8.7 | 0 | 22.30790933 | 114.2220417 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:01:51 | 2018-07-28 06:10:00 | 2018-07-28 06:15:01 | -8.7 | 15.7 | 22.31177367 | 114.2268702 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:01:51 | 2018-07-28 06:10:00 | 2018-07-28 06:16:00 | -9.6 | 0 | 22.31462867 | 114.2256882 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:01:51 | 2018-07-28 06:10:00 | 2018-07-28 06:17:17 | -9.6 | 0 | 22.31640467 | 114.2263172 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:01:51 | 2018-07-28 06:10:00 | 2018-07-28 06:19:00 | -8.6 | 12.5 | 22.318062 | 114.2270432 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:01:51 | 2018-07-28 06:10:00 | 2018-07-28 06:20:37 | -9 | 0 | 22.3223785 | 114.2258895 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:01:51 | 2018-07-28 06:10:00 | 2018-07-28 06:26:16 | -8.3 | 0 | 22.3317265 | 114.226051 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:01:51 | 2018-07-28 06:10:00 | 2018-07-28 06:32:42 | -8.7 | 1.9 | 22.32195783 | 114.2262015 |

| | | | | | | | | | | | | | | |
|------|--|-----|------------|----|--------|----|--------|---------------------|---------------------|---------------------|-------|------|-------------|-------------|
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:01:51 | 2018-07-28 06:10:00 | 2018-07-28 06:34:12 | -8.7 | 0 | 22.31758433 | 114.2268357 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:05:57 | -8.2 | 3.9 | 22.31468467 | 114.2256022 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:07:26 | -8.7 | 0 | 22.3164325 | 114.2262603 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:08:39 | -8.3 | 0 | 22.31739133 | 114.2267137 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:09:50 | -14.4 | 0 | 22.32004017 | 114.2270868 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:11:40 | -8 | 4.2 | 22.32192367 | 114.2261125 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:11:42 | -10.6 | 0 | 22.32195817 | 114.2260965 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:20:24 | -8.3 | 0 | 22.32874117 | 114.226986 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:21:48 | -9 | 0 | 22.33190367 | 114.2257183 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:23:46 | -8.4 | 15.7 | 22.33208417 | 114.2225965 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:26:07 | -8.7 | 0 | 22.328824 | 114.225355 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:28:42 | -8.3 | 0 | 22.32159733 | 114.2263848 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 06:58:49 | 2018-07-28 07:00:00 | 2018-07-28 07:33:07 | -9 | 0 | 22.31308883 | 114.2264037 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 07:59:14 | 2018-07-28 08:00:00 | 2018-07-28 08:03:23 | -9 | 24.4 | 22.30986617 | 114.2289757 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 07:59:14 | 2018-07-28 08:00:00 | 2018-07-28 08:11:41 | -8.4 | 6.7 | 22.32192067 | 114.2261473 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 07:59:14 | 2018-07-28 08:00:00 | 2018-07-28 08:22:10 | -8.3 | 0 | 22.33293667 | 114.2241852 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 07:59:14 | 2018-07-28 08:00:00 | 2018-07-28 08:25:26 | -8.2 | 26.7 | 22.3289405 | 114.225532 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 07:59:14 | 2018-07-28 08:00:00 | 2018-07-28 08:25:28 | -9.3 | 9.3 | 22.32884717 | 114.2254532 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 07:59:14 | 2018-07-28 08:00:00 | 2018-07-28 08:35:53 | -9.3 | 0 | 22.310275 | 114.2238335 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 07:59:14 | 2018-07-28 08:00:00 | 2018-07-28 08:37:01 | -8.3 | 0 | 22.30977383 | 114.223075 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 07:59:14 | 2018-07-28 08:00:00 | 2018-07-28 08:39:59 | -8.4 | 11.9 | 22.30774783 | 114.2216093 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 08:58:32 | 2018-07-28 09:00:00 | 2018-07-28 09:06:50 | -8.3 | 0 | 22.3117695 | 114.2267685 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 08:58:32 | 2018-07-28 09:00:00 | 2018-07-28 09:09:48 | -8.5 | 10.3 | 22.317082 | 114.2265478 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 08:58:32 | 2018-07-28 09:00:00 | 2018-07-28 09:13:49 | -9 | 0 | 22.3218555 | 114.2261772 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 08:58:32 | 2018-07-28 09:00:00 | 2018-07-28 09:21:37 | -9.6 | 0 | 22.32882233 | 114.2269618 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 08:58:32 | 2018-07-28 09:00:00 | 2018-07-28 09:30:26 | -10 | 0 | 22.32195 | 114.2262333 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 08:58:32 | 2018-07-28 09:00:00 | 2018-07-28 09:40:50 | -8.7 | 0 | 22.309522 | 114.2235362 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 09:48:21 | -8.7 | 0 | 22.30826367 | 114.2227038 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 09:50:27 | -8.4 | 24.4 | 22.30845667 | 114.226069 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 09:50:28 | -8.2 | 16.1 | 22.30854217 | 114.2261585 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 09:50:29 | -8.7 | 7.4 | 22.30856167 | 114.226181 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 09:52:30 | -8.2 | 6.1 | 22.30925483 | 114.2285655 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 09:53:22 | -8.3 | 0 | 22.3097925 | 114.2288932 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 09:57:43 | -8.2 | 11.2 | 22.31700617 | 114.2265582 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 09:58:09 | -9.3 | 0 | 22.3171 | 114.2265982 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 10:07:43 | -9 | 1.3 | 22.32639267 | 114.226778 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 10:16:58 | -8.3 | 0 | 22.328794 | 114.2254537 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 10:19:24 | -8.7 | 0 | 22.32190317 | 114.2262487 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 10:19:53 | -8.3 | 0 | 22.32170633 | 114.2263408 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 09:46:37 | 2018-07-28 09:45:00 | 2018-07-28 10:21:30 | -9 | 0 | 22.31879817 | 114.227363 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:00:39 | -8.7 | 0 | 22.3089545 | 114.2224513 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:09:13 | -8.7 | 0 | 22.31463383 | 114.2256152 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:10:41 | -9.3 | 0 | 22.31591733 | 114.2258613 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:11:09 | -8.3 | 5.8 | 22.3162255 | 114.2260178 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:14:33 | -9.6 | 0 | 22.32009233 | 114.2270752 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:22:43 | -10 | 0 | 22.32637417 | 114.2269897 |

| | | | | | | | | | | | | | | |
|------|--|-----|------------|----|--------|----|--------|---------------------|---------------------|---------------------|------|------|-------------|-------------|
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:24:09 | -10 | 0 | 22.32658133 | 114.2266192 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:26:03 | -10 | 0 | 22.32875317 | 114.2270065 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:28:59 | -8.7 | 0 | 22.33192617 | 114.2258338 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:33:25 | -9.6 | 0 | 22.33194867 | 114.2226155 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:40:02 | -8.4 | 11.6 | 22.32205683 | 114.2261885 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:40:40 | -8 | 12.5 | 22.32179767 | 114.2263052 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:41:24 | -8.7 | 1.3 | 22.32074333 | 114.226822 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:43:28 | -9.3 | 0 | 22.318731 | 114.227393 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:44:30 | -9 | 0 | 22.31723367 | 114.2267218 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:46:18 | -10 | 0 | 22.31396333 | 114.226072 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:47:46 | -8 | 8 | 22.31143183 | 114.2259533 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:48:14 | -8.7 | 0 | 22.3108695 | 114.2252902 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 11:55:32 | 2018-07-28 12:00:00 | 2018-07-28 12:48:18 | -9.6 | 9.6 | 22.3108685 | 114.2252892 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 12:58:53 | 2018-07-28 13:00:00 | 2018-07-28 13:01:21 | -8.3 | 0 | 22.307741 | 114.223385 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 12:58:53 | 2018-07-28 13:00:00 | 2018-07-28 13:03:15 | -8.7 | 0 | 22.3091945 | 114.2272643 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 12:58:53 | 2018-07-28 13:00:00 | 2018-07-28 13:07:03 | -9 | 9 | 22.31099033 | 114.228058 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 12:58:53 | 2018-07-28 13:00:00 | 2018-07-28 13:15:14 | -9 | 0 | 22.31978933 | 114.2273707 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 12:58:53 | 2018-07-28 13:00:00 | 2018-07-28 13:22:44 | -8.3 | 0 | 22.32642283 | 114.2267973 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 12:58:53 | 2018-07-28 13:00:00 | 2018-07-28 13:26:55 | -9.3 | 0 | 22.3319175 | 114.2257758 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 12:58:53 | 2018-07-28 13:00:00 | 2018-07-28 13:31:14 | -10 | 0 | 22.33197233 | 114.2225937 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 12:58:53 | 2018-07-28 13:00:00 | 2018-07-28 13:39:16 | -8.3 | 0 | 22.3188485 | 114.2274535 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 12:58:53 | 2018-07-28 13:00:00 | 2018-07-28 13:40:17 | -9.6 | 0 | 22.31752917 | 114.2268285 |
| 3965 | | KBD | 2018-07-28 | 23 | ME9378 | 23 | KT.FRY | 2018-07-28 12:58:53 | 2018-07-28 13:00:00 | 2018-07-28 13:46:53 | -9.3 | 0 | 22.3079125 | 114.2218772 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:04:13 | 2018-07-30 06:10:00 | 2018-07-30 06:19:26 | -9.3 | 0 | 22.31991183 | 114.227218 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:04:13 | 2018-07-30 06:10:00 | 2018-07-30 06:20:02 | -9.9 | 7.4 | 22.321721 | 114.226269 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:04:13 | 2018-07-30 06:10:00 | 2018-07-30 06:28:26 | -9.6 | 0 | 22.331954 | 114.2226357 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:04:13 | 2018-07-30 06:10:00 | 2018-07-30 06:30:51 | -8.7 | 9.3 | 22.32887233 | 114.2254753 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:04:13 | 2018-07-30 06:10:00 | 2018-07-30 06:33:51 | -9.3 | 0 | 22.32191183 | 114.2262267 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:04:13 | 2018-07-30 06:10:00 | 2018-07-30 06:34:27 | -9 | 0 | 22.32052583 | 114.2269038 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:04:13 | 2018-07-30 06:10:00 | 2018-07-30 06:36:12 | -9 | 0 | 22.316893 | 114.2265618 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:04:13 | 2018-07-30 06:10:00 | 2018-07-30 06:37:08 | -10 | 15.1 | 22.31306817 | 114.2264713 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:04:13 | 2018-07-30 06:10:00 | 2018-07-30 06:38:15 | -9 | 9 | 22.31139 | 114.2259817 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:01:49 | -8.6 | 19.6 | 22.30842667 | 114.2260445 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:01:54 | -9.3 | 0 | 22.30853967 | 114.226171 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:03:11 | -9.3 | 0 | 22.30897117 | 114.2284237 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:07:45 | -8.7 | 0 | 22.317106 | 114.2265743 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:09:35 | -8.2 | 7.4 | 22.32195317 | 114.2260822 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:16:48 | -10 | 0 | 22.328792 | 114.2269705 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:18:33 | -8.7 | 8.7 | 22.33188717 | 114.2257423 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:19:10 | -8.7 | 1.3 | 22.33301967 | 114.2242013 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:22:38 | -8.7 | 0 | 22.32882467 | 114.2254045 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:25:48 | -8.3 | 0 | 22.3221845 | 114.226113 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:28:51 | -10 | 0 | 22.31724817 | 114.2267477 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:31:23 | -8.3 | 0 | 22.31310117 | 114.2265132 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:33:17 | -9.3 | 0 | 22.3098075 | 114.2240603 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:34:03 | -8.7 | 0 | 22.3094705 | 114.2235688 |

| | | | | | | | | | | | | | | |
|------|--|-----|------------|----|--------|----|--------|---------------------|---------------------|---------------------|-------|------|-------------|-------------|
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 06:58:20 | 2018-07-30 07:00:00 | 2018-07-30 07:35:39 | -10 | 0 | 22.307115 | 114.2218905 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 07:46:42 | 2018-07-30 07:48:00 | 2018-07-30 07:55:30 | -8.7 | 12.8 | 22.31707833 | 114.2265875 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 07:46:42 | 2018-07-30 07:48:00 | 2018-07-30 08:09:00 | -8 | 8 | 22.33193183 | 114.2257003 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 07:46:42 | 2018-07-30 07:48:00 | 2018-07-30 08:16:26 | -10.9 | 0 | 22.32413483 | 114.2259028 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 07:46:42 | 2018-07-30 07:48:00 | 2018-07-30 08:17:47 | -9.3 | 0 | 22.3218975 | 114.2262285 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 07:46:42 | 2018-07-30 07:48:00 | 2018-07-30 08:18:17 | -8.7 | 0 | 22.321593 | 114.226356 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 07:46:42 | 2018-07-30 07:48:00 | 2018-07-30 08:19:20 | -8 | 0 | 22.320862 | 114.2266922 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 07:46:42 | 2018-07-30 07:48:00 | 2018-07-30 08:21:08 | -10.3 | 0 | 22.31732467 | 114.226772 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 07:46:42 | 2018-07-30 07:48:00 | 2018-07-30 08:22:06 | -9 | 0 | 22.317073 | 114.2266132 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 07:46:42 | 2018-07-30 07:48:00 | 2018-07-30 08:24:20 | -9 | 0 | 22.31268183 | 114.2265578 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 08:51:50 | -9 | 12.2 | 22.310846 | 114.228102 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 08:54:15 | -10 | 0 | 22.3114575 | 114.2274343 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 08:58:42 | -8.3 | 0 | 22.31724833 | 114.2266205 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 09:01:35 | -8.4 | 8 | 22.321959 | 114.226162 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 09:02:19 | -8.3 | 0 | 22.32247317 | 114.2259262 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 09:07:03 | -8 | 13.8 | 22.32619767 | 114.2271935 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 09:13:30 | -8.3 | 0 | 22.33298817 | 114.224266 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 09:18:30 | -10 | 0 | 22.328822 | 114.2254177 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 09:24:44 | -9.3 | 0 | 22.321462 | 114.2263623 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 09:30:08 | -8.3 | 0 | 22.3170725 | 114.2266682 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 09:30:18 | -8.3 | 8.3 | 22.31706533 | 114.226665 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 09:30:19 | -8.3 | 0 | 22.31704767 | 114.2266565 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 09:30:50 | -10 | 0 | 22.3168145 | 114.2265207 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 08:43:49 | 2018-07-30 08:45:00 | 2018-07-30 09:34:22 | -8 | 9.3 | 22.31093583 | 114.2253242 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 09:47:58 | -9.3 | 0 | 22.30822617 | 114.2227485 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 09:48:34 | -8.7 | 1.3 | 22.3075605 | 114.2234343 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 09:48:36 | -8.3 | 8.3 | 22.30755017 | 114.2234467 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 09:48:37 | -8.3 | 0 | 22.3075425 | 114.2234617 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 09:51:28 | -8.3 | 0 | 22.30929533 | 114.2285792 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 09:53:04 | -8.3 | 12.5 | 22.31095733 | 114.227895 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 09:54:19 | -9.6 | 9.6 | 22.31153783 | 114.2275288 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 09:58:16 | -9.6 | 0 | 22.317138 | 114.2265873 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 10:05:10 | -8 | 12.2 | 22.32385217 | 114.2258835 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 10:10:47 | -9.7 | 0.3 | 22.331966 | 114.2257525 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 10:15:18 | -8.4 | 7.7 | 22.32884933 | 114.2254265 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 10:17:19 | -9 | 12.2 | 22.32428167 | 114.2256923 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 10:22:04 | -8.3 | 8.3 | 22.31692433 | 114.2265197 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 10:23:13 | -9.6 | 0 | 22.31308183 | 114.2263737 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 10:25:45 | -9.3 | 0 | 22.31020583 | 114.224319 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 09:44:41 | 2018-07-30 09:45:00 | 2018-07-30 10:29:27 | -9.3 | 0 | 22.30781317 | 114.2217323 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 11:39:37 | 2018-07-30 11:45:00 | 2018-07-30 11:47:03 | -8.3 | 0 | 22.3085075 | 114.2262567 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 11:39:37 | 2018-07-30 11:45:00 | 2018-07-30 11:48:20 | -9.6 | 0 | 22.30913933 | 114.2274913 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 11:39:37 | 2018-07-30 11:45:00 | 2018-07-30 11:49:05 | -8.7 | 0 | 22.309239 | 114.228664 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 11:39:37 | 2018-07-30 11:45:00 | 2018-07-30 11:50:00 | -8.3 | 0 | 22.310675 | 114.2285445 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 11:39:37 | 2018-07-30 11:45:00 | 2018-07-30 11:58:07 | -8.4 | 16.1 | 22.3189325 | 114.2274865 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 11:39:37 | 2018-07-30 11:45:00 | 2018-07-30 12:10:11 | -8.7 | 26.3 | 22.33296633 | 114.2243055 |

| | | | | | | | | | | | | | | |
|-------|--|-----|------------|-----|--------|-----|--------|---------------------|---------------------|---------------------|-------|------|-------------|-------------|
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 11:39:37 | 2018-07-30 11:45:00 | 2018-07-30 12:11:02 | -8.7 | 6.1 | 22.332083 | 114.2225887 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 11:39:37 | 2018-07-30 11:45:00 | 2018-07-30 12:15:19 | -10 | 0 | 22.32210983 | 114.2261352 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 11:39:37 | 2018-07-30 11:45:00 | 2018-07-30 12:21:38 | -10 | 0 | 22.31129267 | 114.2257622 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 11:39:37 | 2018-07-30 11:45:00 | 2018-07-30 12:21:51 | -9.3 | 12.8 | 22.31125733 | 114.2257403 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 12:43:52 | 2018-07-30 12:45:00 | 2018-07-30 12:47:06 | -9.3 | 0 | 22.30854 | 114.2262207 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 12:43:52 | 2018-07-30 12:45:00 | 2018-07-30 12:47:48 | -10 | 0 | 22.30910867 | 114.2276357 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 12:43:52 | 2018-07-30 12:45:00 | 2018-07-30 12:51:05 | -11.2 | 0 | 22.31003267 | 114.2290048 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 12:43:52 | 2018-07-30 12:45:00 | 2018-07-30 12:55:30 | -10.9 | 0 | 22.31369367 | 114.2258637 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 12:43:52 | 2018-07-30 12:45:00 | 2018-07-30 12:57:49 | -8.6 | 10.6 | 22.3166385 | 114.2260802 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 12:43:52 | 2018-07-30 12:45:00 | 2018-07-30 13:03:23 | -9.3 | 0 | 22.3237735 | 114.2257903 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 12:43:52 | 2018-07-30 12:45:00 | 2018-07-30 13:04:22 | -9 | 12.5 | 22.32406 | 114.2284298 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 12:43:52 | 2018-07-30 12:45:00 | 2018-07-30 13:10:44 | -8.3 | 0 | 22.33303167 | 114.224244 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 12:43:52 | 2018-07-30 12:45:00 | 2018-07-30 13:17:41 | -8.1 | 10.3 | 22.3209125 | 114.2267413 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 12:43:52 | 2018-07-30 12:45:00 | 2018-07-30 13:23:37 | -8.2 | 12.2 | 22.309736 | 114.2240785 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 13:44:36 | 2018-07-30 13:45:00 | 2018-07-30 13:48:23 | -9.4 | 0.6 | 22.30919867 | 114.22871 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 13:44:36 | 2018-07-30 13:45:00 | 2018-07-30 13:50:33 | -8.3 | 0 | 22.31162617 | 114.2272643 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 13:44:36 | 2018-07-30 13:45:00 | 2018-07-30 13:54:00 | -10 | 0 | 22.31699317 | 114.2263755 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 13:44:36 | 2018-07-30 13:45:00 | 2018-07-30 13:58:27 | -8.2 | 7.4 | 22.322009 | 114.226231 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 13:44:36 | 2018-07-30 13:45:00 | 2018-07-30 14:00:20 | -9 | 13.2 | 22.32393833 | 114.2259757 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 13:44:36 | 2018-07-30 13:45:00 | 2018-07-30 14:03:19 | -8.4 | 4.8 | 22.32631933 | 114.2269238 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 13:44:36 | 2018-07-30 13:45:00 | 2018-07-30 14:03:24 | -8.4 | 11.6 | 22.32629617 | 114.2268438 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 13:44:36 | 2018-07-30 13:45:00 | 2018-07-30 14:13:37 | -9 | 9 | 22.32417683 | 114.2255865 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 13:44:36 | 2018-07-30 13:45:00 | 2018-07-30 14:18:35 | -8.3 | 0 | 22.31891783 | 114.2274192 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 14:44:12 | 2018-07-30 14:45:00 | 2018-07-30 14:45:42 | -10 | 0 | 22.308942 | 114.2223147 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 14:44:12 | 2018-07-30 14:45:00 | 2018-07-30 14:45:52 | -8.3 | 8.3 | 22.30894383 | 114.2223257 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 14:44:12 | 2018-07-30 14:45:00 | 2018-07-30 14:52:56 | -9.6 | 0 | 22.31464167 | 114.2255215 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 14:44:12 | 2018-07-30 14:45:00 | 2018-07-30 14:59:53 | -9.9 | 1 | 22.32200367 | 114.2261295 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 14:44:12 | 2018-07-30 14:45:00 | 2018-07-30 15:04:07 | -9.3 | 0 | 22.32639717 | 114.226783 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 14:44:12 | 2018-07-30 14:45:00 | 2018-07-30 15:09:34 | -8.7 | 8 | 22.3320265 | 114.2225347 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 14:44:12 | 2018-07-30 14:45:00 | 2018-07-30 15:14:06 | -9 | 0 | 22.321934 | 114.2262193 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 14:44:12 | 2018-07-30 14:45:00 | 2018-07-30 15:19:30 | -8.7 | 0 | 22.31720617 | 114.2267402 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 14:44:12 | 2018-07-30 14:45:00 | 2018-07-30 15:21:47 | -10 | 0 | 22.31310833 | 114.2263502 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 14:44:12 | 2018-07-30 14:45:00 | 2018-07-30 15:26:24 | -9.6 | 0 | 22.30772467 | 114.2217927 |
| 3965 | | KBD | 2018-07-30 | 23 | ME9378 | 23 | KT.FRY | 2018-07-30 14:44:12 | 2018-07-30 14:45:00 | 2018-07-30 15:26:44 | -8.7 | 0 | 22.30778517 | 114.2218577 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:14:13 | -8.9 | 2.7 | 22.44597467 | 114.1670773 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:16:08 | -9.9 | 4.1 | 22.44821783 | 114.1664193 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:18:17 | -9.2 | 15 | 22.45188617 | 114.1673435 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:18:18 | -9.2 | 5.8 | 22.45190833 | 114.167343 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:21:50 | -9.5 | 8.9 | 22.4522425 | 114.1655607 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:30:11 | -8.5 | 16.7 | 22.46148833 | 114.147877 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:31:43 | -8.5 | 6.5 | 22.4573605 | 114.1442442 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:34:15 | -9.5 | 7.9 | 22.45052283 | 114.1376487 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:38:21 | -8.6 | 4.4 | 22.44199533 | 114.127873 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:39:12 | -9.2 | 6.8 | 22.44022283 | 114.1251635 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:47:47 | -8.5 | 19.5 | 22.42991933 | 114.0944565 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:47:48 | -9.3 | 10.2 | 22.42992583 | 114.0944175 |

| | | | | | | | | | | | | | | |
|-------|--|-----|------------|-----|--------|-----|--------|---------------------|---------------------|---------------------|------|------|-------------|-------------|
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:47:49 | -8.5 | 1.7 | 22.42992767 | 114.0944055 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:51:38 | -8.5 | 8.2 | 22.42746283 | 114.0823077 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:53:07 | -8.6 | 12.6 | 22.4244785 | 114.0778052 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:53:08 | -8.8 | 3.8 | 22.424469 | 114.077788 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 07:10:09 | 2018-07-24 07:12:00 | 2018-07-24 07:58:30 | -8.5 | 5.8 | 22.4337935 | 114.070492 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 08:39:05 | 2018-07-24 08:40:00 | 2018-07-24 08:52:51 | -8.5 | 7.2 | 22.44431733 | 114.0437837 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 08:39:05 | 2018-07-24 08:40:00 | 2018-07-24 08:53:46 | -8.6 | 10.9 | 22.4444785 | 114.0474997 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 08:39:05 | 2018-07-24 08:40:00 | 2018-07-24 09:01:42 | -8.5 | 12 | 22.43464 | 114.0643075 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 08:39:05 | 2018-07-24 08:40:00 | 2018-07-24 09:01:43 | -8.9 | 3.1 | 22.43465733 | 114.0642955 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 08:39:05 | 2018-07-24 08:40:00 | 2018-07-24 09:08:22 | -8.9 | 4.4 | 22.42522733 | 114.075121 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 08:39:05 | 2018-07-24 08:40:00 | 2018-07-24 09:10:49 | -8.6 | 6.1 | 22.42710883 | 114.0818398 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 08:39:05 | 2018-07-24 08:40:00 | 2018-07-24 09:16:00 | -8.5 | 10.6 | 22.43144233 | 114.102926 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 08:39:05 | 2018-07-24 08:40:00 | 2018-07-24 09:18:22 | -9.5 | 10.6 | 22.43146267 | 114.108382 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 08:39:05 | 2018-07-24 08:40:00 | 2018-07-24 09:40:43 | -8.5 | 5.8 | 22.45213683 | 114.1653265 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 10:20:21 | 2018-07-24 10:20:00 | 2018-07-24 11:14:39 | -8.9 | 9.2 | 22.43751983 | 114.0668862 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 10:20:21 | 2018-07-24 10:20:00 | 2018-07-24 11:15:27 | -8.7 | 9.6 | 22.4381575 | 114.0647522 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 10:20:21 | 2018-07-24 10:20:00 | 2018-07-24 11:16:17 | -8.6 | 15 | 22.43985133 | 114.061752 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | TPOSTN | 2018-07-24 10:20:21 | 2018-07-24 10:20:00 | 2018-07-24 11:16:18 | -8.9 | 6.1 | 22.43987 | 114.0617515 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 12:15:16 | 2018-07-24 12:18:00 | 2018-07-24 12:43:34 | -8.5 | 19.5 | 22.4265565 | 114.0737293 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 12:15:16 | 2018-07-24 12:18:00 | 2018-07-24 12:43:35 | -9.6 | 9.9 | 22.42653183 | 114.0737578 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 12:15:16 | 2018-07-24 12:18:00 | 2018-07-24 12:47:14 | -8.8 | 7.2 | 22.428326 | 114.0839692 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 12:15:16 | 2018-07-24 12:18:00 | 2018-07-24 12:48:00 | -8.9 | 5.8 | 22.428889 | 114.0869012 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 12:15:16 | 2018-07-24 12:18:00 | 2018-07-24 12:51:03 | -8.8 | 5.5 | 22.43145317 | 114.1029322 |
| 63287 | | STD | 2018-07-24 | 64K | KC6895 | 64K | ULONGW | 2018-07-24 12:15:16 | 2018-07-24 12:18:00 | 2018-07-24 13:02:20 | -8.6 | 4.4 | 22.45980983 | 114.1458238 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 16:51:40 | -8.9 | 23.9 | 22.4499365 | 114.1670987 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 16:51:41 | -9.5 | 14.3 | 22.449984 | 114.167107 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 16:51:42 | -9.9 | 4.4 | 22.450007 | 114.1671072 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 16:55:06 | -9.9 | 8.2 | 22.45231483 | 114.1655725 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 16:59:56 | -9.6 | 32.1 | 22.45366567 | 114.1567843 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:03:41 | -8.5 | 10.6 | 22.45936517 | 114.1456343 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:03:42 | -8.9 | 1.7 | 22.4593515 | 114.1456292 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:04:25 | -8.5 | 7.2 | 22.45739 | 114.1442043 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:19:58 | -8.5 | 12 | 22.4288895 | 114.0868853 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:19:59 | -8.6 | 3.4 | 22.428885 | 114.0868635 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:20:42 | -8.9 | 14.3 | 22.42840383 | 114.0843 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:20:43 | -9.5 | 4.8 | 22.42839883 | 114.084273 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:21:49 | -8.5 | 10.6 | 22.42536833 | 114.0794035 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:22:22 | -9.5 | 14.7 | 22.42448283 | 114.077831 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:22:23 | -9.6 | 5.1 | 22.4244685 | 114.077806 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:22:59 | -8.9 | 5.1 | 22.4246725 | 114.0755793 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:24:33 | -9.2 | 2.4 | 22.42923933 | 114.0717658 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:32:39 | -8.9 | 22.2 | 22.43977367 | 114.0617437 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:34:00 | -8.9 | 9.2 | 22.4401375 | 114.0563275 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | TPOSTN | 2018-07-24 16:43:05 | 2018-07-24 16:44:00 | 2018-07-24 17:40:03 | -8.9 | 6.5 | 22.444288 | 114.0360175 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:16:31 | -8.5 | 14 | 22.4445905 | 114.0284733 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:17:06 | -8.5 | 12 | 22.4445485 | 114.0303863 |

| | | | | | | | | | | | | | | |
|-------|--|-----|------------|-----|--------|-----|--------|---------------------|---------------------|---------------------|------|------|-------------|-------------|
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:17:07 | -10 | 2 | 22.44454883 | 114.0304118 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:25:46 | -9.5 | 25.3 | 22.44366933 | 114.049481 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:25:47 | -9.9 | 15.4 | 22.44363983 | 114.0495357 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:25:48 | -8.5 | 6.8 | 22.4436235 | 114.0495648 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:27:27 | -9.5 | 9.6 | 22.44033617 | 114.0562557 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:35:47 | -9.5 | 10.6 | 22.43439467 | 114.0647908 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:38:55 | -8.9 | 13 | 22.43654117 | 114.0690227 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:39:45 | -9.2 | 6.5 | 22.43420067 | 114.0703695 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:40:27 | -9.2 | 4.4 | 22.4315885 | 114.0711115 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:41:59 | -8.5 | 16.4 | 22.42658483 | 114.0737335 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:42:00 | -8.5 | 7.9 | 22.42655833 | 114.073763 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:42:42 | -8.8 | 15.4 | 22.4253095 | 114.0750648 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:42:43 | -9.5 | 5.8 | 22.42528317 | 114.0750882 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:47:49 | -8.6 | 3.4 | 22.42975167 | 114.0915697 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:48:38 | -8.6 | 6.1 | 22.42981233 | 114.0951827 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:49:43 | -9.2 | 7.5 | 22.4305095 | 114.1002872 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:50:27 | -8.5 | 4.1 | 22.4314355 | 114.1029608 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:51:24 | -9.2 | 3.4 | 22.43154567 | 114.104955 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:56:32 | -8.5 | 12 | 22.44196467 | 114.1278208 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:56:33 | -8.6 | 3.4 | 22.44198633 | 114.1278382 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 18:58:36 | -8.5 | 2.4 | 22.44905867 | 114.1352848 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 19:02:25 | -9.1 | 11.6 | 22.45978683 | 114.1457998 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 19:02:26 | -8.5 | 3.1 | 22.45981183 | 114.1458103 |
| 63287 | | STD | 2018-07-24 | 64K | KC8013 | 64K | ULONGW | 2018-07-24 18:09:58 | 2018-07-24 18:12:00 | 2018-07-24 19:11:03 | -8.4 | 11.3 | 22.45213633 | 114.1653407 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:11:13 | -9.5 | 15.7 | 22.4482715 | 114.166423 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:11:14 | -9.6 | 6.1 | 22.44829117 | 114.1664352 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:11:35 | -8.2 | 9.9 | 22.44861633 | 114.166613 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:11:36 | -9.9 | 0 | 22.44861967 | 114.1666152 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:12:27 | -9.2 | 7.9 | 22.4500425 | 114.1671283 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:12:56 | -8.2 | 9.9 | 22.45073 | 114.1672222 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:13:57 | -8.5 | 13.7 | 22.45192267 | 114.1673228 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:13:58 | -8.9 | 4.8 | 22.45194133 | 114.1673223 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:18:05 | -8.5 | 7.5 | 22.452285 | 114.165574 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:18:32 | -9.9 | 0 | 22.452189 | 114.1654552 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:18:37 | -8.2 | 8.2 | 22.45217917 | 114.1654403 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:18:40 | -9.6 | 0 | 22.45213333 | 114.1653968 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:20:54 | -9.6 | 0 | 22.45062917 | 114.1608315 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:25:18 | -8.5 | 8.2 | 22.46063633 | 114.1485338 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:26:06 | -9.9 | 18.1 | 22.460968 | 114.1469272 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:31:04 | -8.5 | 7.2 | 22.4458545 | 114.1324448 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:39:08 | -9.2 | 9.9 | 22.4312475 | 114.1027062 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:39:09 | -9.9 | 0 | 22.43124083 | 114.1026907 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:39:54 | -8.5 | 5.5 | 22.43044433 | 114.1000617 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:43:52 | -8.5 | 7.2 | 22.42838783 | 114.0843105 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:44:45 | -9.3 | 0.3 | 22.427421 | 114.0822615 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:46:24 | -8.8 | 11.3 | 22.42445667 | 114.077822 |

| | | | | | | | | | | | | | | |
|-------|--|-----|------------|------|--------|------|--------|---------------------|---------------------|---------------------|------|------|-------------|-------------|
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:46:25 | -8.9 | 2.4 | 22.42444917 | 114.077808 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:47:21 | -9.2 | 4.4 | 22.4246535 | 114.0756332 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:49:50 | -8.5 | 19.8 | 22.4291895 | 114.0718083 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:49:52 | -8.6 | 3.4 | 22.42924283 | 114.0717853 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:49:53 | -8.2 | 11.6 | 22.42926833 | 114.0717748 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:55:14 | -8.9 | 11.3 | 22.4346135 | 114.0643863 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:56:42 | -9.9 | 11.3 | 22.43441367 | 114.0647898 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:57:03 | -9.9 | 0 | 22.43396767 | 114.0650138 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 07:59:06 | -8.9 | 1 | 22.43673867 | 114.068078 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 08:01:10 | -9.9 | 0.3 | 22.4375435 | 114.0668717 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 08:06:38 | -9.9 | 0 | 22.44421083 | 114.0427538 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 08:07:29 | -9.9 | 0 | 22.44420983 | 114.0398978 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 08:12:19 | -9.9 | 0.3 | 22.4442755 | 114.0306633 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | TPOSTN | 2018-07-25 07:05:36 | 2018-07-25 07:07:00 | 2018-07-25 08:15:41 | -9.2 | 0 | 22.4450745 | 114.0248108 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 08:40:08 | -9.6 | 0 | 22.44559917 | 114.024866 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 08:40:22 | -9.6 | 0 | 22.44563 | 114.024913 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 08:42:29 | -9.2 | 9.2 | 22.44564367 | 114.024919 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 08:47:06 | -9.2 | 9.2 | 22.44448783 | 114.0305557 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 08:49:13 | -9.6 | 0 | 22.44658983 | 114.0344175 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 08:51:27 | -9.6 | 0 | 22.44508033 | 114.0367445 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:04:47 | -9.9 | 0.3 | 22.43468217 | 114.0643352 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:09:19 | -8.6 | 12.6 | 22.42875667 | 114.0718935 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:10:09 | -9.3 | 18.4 | 22.42657883 | 114.0737177 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:10:49 | -9.9 | 9.2 | 22.4252375 | 114.0751138 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:12:38 | -9.6 | 0 | 22.42551333 | 114.0796883 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:13:20 | -8.9 | 16.4 | 22.4270985 | 114.0818552 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:13:21 | -9.9 | 6.5 | 22.42712133 | 114.0818838 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:13:23 | -9.6 | 0 | 22.42713717 | 114.0819155 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:14:02 | -8.8 | 5.5 | 22.42836533 | 114.0840175 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:14:51 | -8.5 | 5.5 | 22.428909 | 114.0869928 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:16:24 | -9.2 | 7.2 | 22.42981083 | 114.0951585 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:16:26 | -9.9 | 0 | 22.42980517 | 114.0951912 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:18:24 | -8.9 | 4.8 | 22.43145583 | 114.1029703 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:19:10 | -9.5 | 5.8 | 22.43155967 | 114.1049807 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:19:57 | -9.2 | 7.2 | 22.43172767 | 114.1071928 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:26:42 | -8.5 | 0 | 22.4419995 | 114.1278408 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:39:16 | -9.2 | 24.2 | 22.46014167 | 114.1459387 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:43:50 | -9.6 | 0 | 22.45524083 | 114.165432 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:45:37 | -8.2 | 9.6 | 22.45616183 | 114.1668907 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 08:38:05 | 2018-07-25 08:40:00 | 2018-07-25 09:45:38 | -9.6 | 0 | 22.45616883 | 114.1669012 |
| 63287 | | STD | NULL | NULL | KD 801 | NULL | NULL | 2018-07-25 12:16:20 | NULL | 2018-07-25 12:16:56 | -8.5 | 0 | 22.44577267 | 114.0247535 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:20:19 | -9.2 | 0 | 22.444473 | 114.0284947 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:20:38 | -9.6 | 0 | 22.4444725 | 114.0284973 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:20:39 | -9.6 | 9.6 | 22.444466 | 114.0285143 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:22:00 | -9.2 | 0 | 22.44421067 | 114.0304637 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:32:12 | -9.2 | 0 | 22.440105 | 114.056963 |

| | | | | | | | | | | | | | | |
|-------|--|-----|------------|-----|--------|-----|--------|---------------------|---------------------|---------------------|-------|------|-------------|-------------|
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:33:57 | -9.5 | 4.8 | 22.43991833 | 114.0618107 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:33:58 | -9.9 | 14.7 | 22.4399165 | 114.06183 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:34:02 | -9.6 | 9.6 | 22.4399085 | 114.0619012 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:35:09 | -9.5 | 0.3 | 22.43798933 | 114.0657178 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:46:13 | -9.5 | 0.3 | 22.42548967 | 114.079642 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:49:43 | -8.2 | 2.7 | 22.4297425 | 114.0915885 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:49:45 | -10.2 | 0 | 22.429746 | 114.0916112 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 12:50:37 | -9.6 | 0 | 22.4297925 | 114.095231 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 13:09:52 | -9.2 | 0 | 22.453852 | 114.156386 |
| 63287 | | STD | 2018-07-25 | 64K | KD 801 | 64K | ULONGW | 2018-07-25 12:16:20 | 2018-07-25 12:18:00 | 2018-07-25 13:19:21 | -9.9 | 0 | 22.45294067 | 114.1673662 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 16:51:44 | -8.6 | 10.9 | 22.44999283 | 114.1670965 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 16:53:00 | -9.5 | 6.8 | 22.45193333 | 114.167321 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:05:01 | -8.5 | 10.2 | 22.45932817 | 114.1456592 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:17:16 | -8.8 | 7.9 | 22.43252483 | 114.1112682 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:23:04 | -8.4 | 11.3 | 22.4289055 | 114.0869352 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:24:49 | -9.2 | 7.9 | 22.425373 | 114.0793923 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:26:02 | -8.5 | 18.1 | 22.42464617 | 114.07565 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:26:03 | -9.9 | 8.2 | 22.42467483 | 114.0756258 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:27:48 | -9.2 | 9.2 | 22.42925733 | 114.0717682 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:28:30 | -8.9 | 4.4 | 22.431836 | 114.0710303 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:29:08 | -8.5 | 9.2 | 22.43376167 | 114.0704887 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:36:59 | -8.5 | 10.2 | 22.43755033 | 114.0669052 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:48:50 | -9.2 | 4.4 | 22.44428317 | 114.0360265 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | TPOSTN | 2018-07-25 16:38:47 | 2018-07-25 16:44:00 | 2018-07-25 17:51:02 | -8.9 | 10.6 | 22.44447333 | 114.0307642 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:29:39 | -8.9 | 8.9 | 22.44242717 | 114.0515915 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:30:33 | -8.9 | 17.1 | 22.4403595 | 114.0561387 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:30:34 | -9.9 | 7.2 | 22.440345 | 114.0561792 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:33:10 | -8.5 | 15.4 | 22.4381025 | 114.0655385 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:33:11 | -8.9 | 6.5 | 22.43809567 | 114.065576 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:41:43 | -8.8 | 11.3 | 22.43162133 | 114.0710852 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:44:26 | -8.6 | 8.5 | 22.42531083 | 114.0750547 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:45:32 | -8.2 | 6.1 | 22.42428283 | 114.0774278 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:47:17 | -8.9 | 8.5 | 22.427114 | 114.0818387 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:48:06 | -9.2 | 5.1 | 22.42833233 | 114.0839075 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:50:47 | -8.5 | 7.2 | 22.42982817 | 114.0951193 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:52:44 | -9.2 | 7.9 | 22.43145983 | 114.1029207 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 18:55:14 | -9.9 | 6.1 | 22.43172833 | 114.1071378 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 19:01:27 | -9.6 | 4.4 | 22.44200367 | 114.1278337 |
| 63287 | | STD | 2018-07-25 | 64K | KD1456 | 64K | ULONGW | 2018-07-25 18:08:08 | 2018-07-25 18:12:00 | 2018-07-25 19:18:14 | -9.2 | 4.4 | 22.45193283 | 114.1673817 |
| 63287 | | STD | 2018-07-26 | 64K | LT6216 | 64K | TPOSTN | 2018-07-26 07:05:41 | 2018-07-26 07:07:00 | 2018-07-26 07:14:32 | -8.5 | 4.5 | 22.4522755 | 114.1655382 |
| 63287 | | STD | 2018-07-26 | 64K | LT6216 | 64K | ULONGW | 2018-07-26 08:29:57 | 2018-07-26 08:32:00 | 2018-07-26 08:33:41 | -8.5 | 19.3 | 22.444543 | 114.0262335 |
| 63287 | | STD | 2018-07-26 | 64K | LT6216 | 64K | ULONGW | 2018-07-26 08:29:57 | 2018-07-26 08:32:00 | 2018-07-26 08:33:42 | -8.9 | 10.3 | 22.44454083 | 114.0262683 |
| 63287 | | STD | 2018-07-26 | 64K | LT6216 | 64K | ULONGW | 2018-07-26 08:29:57 | 2018-07-26 08:32:00 | 2018-07-26 08:35:03 | -8.9 | 9 | 22.44454483 | 114.028476 |
| 63287 | | STD | 2018-07-26 | 64K | LT6216 | 64K | ULONGW | 2018-07-26 08:29:57 | 2018-07-26 08:32:00 | 2018-07-26 08:47:11 | -8.5 | 11.7 | 22.44013383 | 114.0592218 |
| 63287 | | STD | 2018-07-26 | 64K | LT6216 | 64K | ULONGW | 2018-07-26 08:29:57 | 2018-07-26 08:32:00 | 2018-07-26 09:12:17 | -8.5 | 12.1 | 22.43175917 | 114.1071463 |
| 63287 | | STD | 2018-07-26 | 64K | LT6216 | 64K | ULONGW | 2018-07-26 08:29:57 | 2018-07-26 08:32:00 | 2018-07-26 09:12:18 | -8.5 | 3.6 | 22.4317615 | 114.1071638 |

| | | | | | | | | | | | | | | |
|-------|--|-----|------------|-----|--------|-----|--------|---------------------|---------------------|---------------------|------|------|-------------|-------------|
| 63287 | | STD | 2018-07-26 | 64K | LT6216 | 64K | TPOSTN | 2018-07-26 10:12:59 | 2018-07-26 10:14:00 | 2018-07-26 10:20:58 | -8.5 | 16.2 | 22.449915 | 114.16709 |
| 63287 | | STD | 2018-07-26 | 64K | LT6216 | 64K | ULONGW | 2018-07-26 12:14:42 | 2018-07-26 12:18:00 | 2018-07-26 12:33:11 | -8.5 | 17.1 | 22.44436817 | 114.0436803 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | TPOSTN | 2018-07-26 16:38:52 | 2018-07-26 16:44:00 | 2018-07-26 17:00:20 | -9.2 | 6.5 | 22.45741 | 114.1442453 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | TPOSTN | 2018-07-26 16:38:52 | 2018-07-26 16:44:00 | 2018-07-26 17:13:44 | -9.5 | 8.9 | 22.43045333 | 114.1000345 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | TPOSTN | 2018-07-26 16:38:52 | 2018-07-26 16:44:00 | 2018-07-26 17:15:26 | -9.2 | 6.5 | 22.429792 | 114.0917803 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | TPOSTN | 2018-07-26 16:38:52 | 2018-07-26 16:44:00 | 2018-07-26 17:19:38 | -8.9 | 10.9 | 22.42448633 | 114.077801 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | TPOSTN | 2018-07-26 16:38:52 | 2018-07-26 16:44:00 | 2018-07-26 17:23:43 | -8.9 | 4.1 | 22.431837 | 114.071033 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | TPOSTN | 2018-07-26 16:38:52 | 2018-07-26 16:44:00 | 2018-07-26 17:24:24 | -8.9 | 9.2 | 22.43380783 | 114.070489 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | TPOSTN | 2018-07-26 16:38:52 | 2018-07-26 16:44:00 | 2018-07-26 17:44:38 | -9.1 | 17.1 | 22.4446235 | 114.0321062 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | TPOSTN | 2018-07-26 16:38:52 | 2018-07-26 16:44:00 | 2018-07-26 17:44:39 | -9.9 | 7.2 | 22.4446125 | 114.0320675 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:21:56 | -8.9 | 12.3 | 22.4445215 | 114.038296 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:26:47 | -8.9 | 10.6 | 22.443654 | 114.0495138 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:28:12 | -8.5 | 7.5 | 22.44032333 | 114.0562515 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:33:25 | -9.5 | 6.8 | 22.4359465 | 114.0675858 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:39:37 | -8.9 | 8.2 | 22.436431 | 114.0691745 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:41:24 | -8.8 | 3.8 | 22.428737 | 114.0719027 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:46:40 | -8.5 | 14.7 | 22.42832067 | 114.0839442 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:46:41 | -8.9 | 5.8 | 22.42832717 | 114.0839793 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:48:51 | -8.5 | 8.9 | 22.4297405 | 114.0915258 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:50:54 | -9.1 | 10.6 | 22.43052267 | 114.1002212 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:51:37 | -8.9 | 10.6 | 22.43143767 | 114.1028848 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:52:09 | -8.9 | 8.9 | 22.43174033 | 114.103215 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 18:58:40 | -8.5 | 8.9 | 22.43930267 | 114.1234515 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 19:00:40 | -8.5 | 5.5 | 22.44479217 | 114.1311778 |
| 63287 | | STD | 2018-07-26 | 64K | KD1456 | 64K | ULONGW | 2018-07-26 18:09:00 | 2018-07-26 18:12:00 | 2018-07-26 19:04:59 | -8.7 | 9.6 | 22.46029217 | 114.1459798 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | TPOSTN | 2018-07-27 07:06:31 | 2018-07-27 07:07:00 | 2018-07-27 07:10:04 | -8.9 | 5.8 | 22.44816283 | 114.1663917 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | TPOSTN | 2018-07-27 07:06:31 | 2018-07-27 07:07:00 | 2018-07-27 07:14:27 | -8.5 | 10.2 | 22.45226783 | 114.165592 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | TPOSTN | 2018-07-27 07:06:31 | 2018-07-27 07:07:00 | 2018-07-27 07:37:37 | -8.5 | 7.2 | 22.43045317 | 114.1000453 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | TPOSTN | 2018-07-27 07:06:31 | 2018-07-27 07:07:00 | 2018-07-27 07:38:46 | -8.9 | 12.3 | 22.42991733 | 114.094465 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | TPOSTN | 2018-07-27 07:06:31 | 2018-07-27 07:07:00 | 2018-07-27 07:54:00 | -8.8 | 11.3 | 22.434374 | 114.0647937 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | TPOSTN | 2018-07-27 07:06:31 | 2018-07-27 07:07:00 | 2018-07-27 08:04:34 | -8.5 | 8.9 | 22.4447055 | 114.0397458 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 08:31:03 | 2018-07-27 08:32:00 | 2018-07-27 08:45:39 | -8.9 | 19.1 | 22.44432233 | 114.0436642 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 08:31:03 | 2018-07-27 08:32:00 | 2018-07-27 08:45:40 | -9.9 | 9.2 | 22.44431933 | 114.0437013 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 08:31:03 | 2018-07-27 08:32:00 | 2018-07-27 09:00:53 | -8.5 | 3.8 | 22.4265445 | 114.0737513 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 08:31:03 | 2018-07-27 08:32:00 | 2018-07-27 09:04:11 | -8.9 | 6.8 | 22.42712617 | 114.0818558 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 08:31:03 | 2018-07-27 08:32:00 | 2018-07-27 09:04:56 | -8.5 | 18.8 | 22.42832967 | 114.0839132 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 08:31:03 | 2018-07-27 08:32:00 | 2018-07-27 09:04:57 | -9.1 | 9.6 | 22.4283355 | 114.0839513 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 08:31:03 | 2018-07-27 08:32:00 | 2018-07-27 09:06:58 | -8.8 | 7.9 | 22.42889717 | 114.0868908 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 08:31:03 | 2018-07-27 08:32:00 | 2018-07-27 09:08:48 | -8.6 | 3.4 | 22.42980817 | 114.0951392 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 08:31:03 | 2018-07-27 08:32:00 | 2018-07-27 09:10:00 | -9.2 | 4.4 | 22.43052467 | 114.1002483 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 08:31:03 | 2018-07-27 08:32:00 | 2018-07-27 09:46:05 | -9.5 | 14.3 | 22.44728417 | 114.1700015 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 08:31:03 | 2018-07-27 08:32:00 | 2018-07-27 09:46:06 | -9.2 | 5.1 | 22.44727383 | 114.1700272 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | TPOSTN | 2018-07-27 10:12:54 | 2018-07-27 10:14:00 | 2018-07-27 10:53:21 | -8.7 | 9.6 | 22.42992267 | 114.0944837 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | TPOSTN | 2018-07-27 10:12:54 | 2018-07-27 10:14:00 | 2018-07-27 10:57:08 | -9.2 | 10.9 | 22.42535917 | 114.079423 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | TPOSTN | 2018-07-27 10:12:54 | 2018-07-27 10:14:00 | 2018-07-27 11:12:36 | -9.2 | 6.5 | 22.44014 | 114.0562918 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:26:42 | -9.2 | 7.9 | 22.4444045 | 114.0388397 |

| | | | | | | | | | | | | | | |
|-------|--|-----|------------|-----|--------|-----|--------|---------------------|---------------------|---------------------|------|------|-------------|-------------|
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:29:01 | -8.9 | 16.7 | 22.44435983 | 114.0436878 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:29:02 | -9.5 | 7.2 | 22.44435283 | 114.043732 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:30:18 | -8.5 | 10.2 | 22.44365383 | 114.0495065 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:31:39 | -8.5 | 26 | 22.44011 | 114.0569272 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:31:40 | -9.6 | 16.4 | 22.440097 | 114.0569978 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:31:41 | -8.9 | 7.5 | 22.44008783 | 114.0570428 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:34:18 | -8.5 | 17.1 | 22.4380905 | 114.0655283 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:36:45 | -8.8 | 15.4 | 22.43461483 | 114.0643753 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:40:59 | -8.6 | 20.8 | 22.43166833 | 114.0710677 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:41:00 | -9.4 | 11.3 | 22.43161617 | 114.0710823 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:41:01 | -8.9 | 2.4 | 22.43158717 | 114.0710912 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:41:44 | -9.2 | 16 | 22.42879767 | 114.0718863 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:41:45 | -9.5 | 6.5 | 22.42875767 | 114.0718983 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:43:00 | -8.5 | 9.6 | 22.4252915 | 114.0750662 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:44:33 | -9.2 | 5.8 | 22.42549383 | 114.0796108 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:46:00 | -8.6 | 16 | 22.42831633 | 114.083937 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:46:01 | -9.5 | 6.5 | 22.428325 | 114.0839803 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 12:46:54 | -8.9 | 8.5 | 22.42889467 | 114.0868847 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 13:03:44 | -8.8 | 11.3 | 22.45979517 | 114.1457855 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 13:03:45 | -8.6 | 2.7 | 22.45982467 | 114.1457975 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 13:13:28 | -8.5 | 9.9 | 22.45203467 | 114.165248 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 13:17:33 | -8.9 | 6.1 | 22.45191483 | 114.1673237 |
| 63287 | | STD | 2018-07-27 | 64K | KL8537 | 64K | ULONGW | 2018-07-27 12:15:47 | 2018-07-27 12:18:00 | 2018-07-27 13:23:29 | -8.9 | 12.3 | 22.44672383 | 114.1718123 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | TPOSTN | 2018-07-27 16:41:29 | 2018-07-27 16:44:00 | 2018-07-27 16:52:22 | -8.9 | 12.3 | 22.45186783 | 114.1673457 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | TPOSTN | 2018-07-27 16:41:29 | 2018-07-27 16:44:00 | 2018-07-27 17:10:04 | -8.6 | 20.8 | 22.44597117 | 114.1325278 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | TPOSTN | 2018-07-27 16:41:29 | 2018-07-27 16:44:00 | 2018-07-27 17:10:06 | -8.6 | 4.4 | 22.44588367 | 114.132461 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | TPOSTN | 2018-07-27 16:41:29 | 2018-07-27 16:44:00 | 2018-07-27 17:24:30 | -8.6 | 18.4 | 22.42844117 | 114.0844398 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | TPOSTN | 2018-07-27 16:41:29 | 2018-07-27 16:44:00 | 2018-07-27 17:24:31 | -9.5 | 8.9 | 22.4284335 | 114.0843798 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 18:22:57 | -9.2 | 4.8 | 22.44435 | 114.0437202 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 18:26:11 | -8.8 | 5.5 | 22.44033617 | 114.0561982 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 18:49:03 | -8.6 | 5.1 | 22.43050883 | 114.1002493 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 18:49:51 | -8.5 | 8.9 | 22.43142983 | 114.1029107 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 18:56:11 | -9.2 | 21.5 | 22.4409365 | 114.1270115 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 18:58:05 | -8.5 | 7.2 | 22.4490635 | 114.135271 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 19:00:34 | -8.5 | 9.9 | 22.45568767 | 114.142399 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 19:09:23 | -8.6 | 20.8 | 22.45046683 | 114.163896 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 19:09:24 | -9.4 | 11.3 | 22.45047483 | 114.1639435 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 19:10:37 | -8.8 | 7.2 | 22.45081783 | 114.1646013 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 19:18:15 | -9.2 | 19.5 | 22.447363 | 114.1698563 |
| 63287 | | STD | 2018-07-27 | 64K | KD1456 | 64K | ULONGW | 2018-07-27 18:06:19 | 2018-07-27 18:08:00 | 2018-07-27 19:18:16 | -9.3 | 10.2 | 22.44734183 | 114.169905 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 08:36:24 | -8.4 | 11.3 | 22.44454717 | 114.028436 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 08:36:25 | -8.9 | 2.4 | 22.444543 | 114.0284735 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 08:37:36 | -8.6 | 4.4 | 22.44449667 | 114.030391 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 08:46:32 | -9.2 | 12.3 | 22.44034517 | 114.0562122 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 08:46:33 | -9.9 | 2.4 | 22.44033117 | 114.05625 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 08:52:09 | -8.6 | 8.5 | 22.434649 | 114.0643548 |

| | | | | | | | | | | | | | | |
|-------|--|-----|------------|-----|--------|-----|--------|---------------------|---------------------|---------------------|-------|------|-------------|-------------|
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 08:55:25 | -8.5 | 7.5 | 22.436438 | 114.0691702 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 08:58:24 | -8.9 | 5.8 | 22.42527933 | 114.0750827 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 09:02:59 | -8.9 | 6.8 | 22.42975417 | 114.0915287 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 09:05:23 | -9.3 | 2 | 22.4305335 | 114.1002428 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 09:08:00 | -9.6 | 4.4 | 22.43177217 | 114.1071513 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 09:14:00 | -8.5 | 10.6 | 22.44098917 | 114.1270077 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 09:14:30 | -8.9 | 14.7 | 22.4419615 | 114.1277808 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 09:14:31 | -8.9 | 5.8 | 22.44199867 | 114.127809 |
| 63287 | | STD | 2018-07-29 | 64K | KC8013 | 64K | ULONGW | 2018-07-29 08:31:06 | 2018-07-29 08:30:00 | 2018-07-29 09:36:13 | -8.5 | 7.2 | 22.44734533 | 114.1699698 |
| 63287 | | STD | 2018-07-29 | 64K | RU4123 | 64K | ULONGW | 2018-07-29 11:30:29 | 2018-07-29 11:34:00 | 2018-07-29 12:03:12 | -8.9 | 4.6 | 22.42536288 | 114.0748858 |
| 63287 | | STD | 2018-07-29 | 64K | KD3024 | 64K | TPOSTN | 2018-07-29 14:46:44 | 2018-07-29 14:51:00 | 2018-07-29 15:15:08 | -8.5 | 3.1 | 22.45563267 | 114.1424708 |
| 63287 | | STD | 2018-07-29 | 64K | KD3024 | 64K | TPOSTN | 2018-07-29 14:46:44 | 2018-07-29 14:51:00 | 2018-07-29 15:29:47 | -8.5 | 14 | 22.42993633 | 114.0944873 |
| 63287 | | STD | 2018-07-29 | 64K | KD3024 | 64K | TPOSTN | 2018-07-29 14:46:44 | 2018-07-29 14:51:00 | 2018-07-29 15:29:48 | -9.2 | 4.8 | 22.429939 | 114.0944695 |
| 63287 | | STD | 2018-07-29 | 64K | KD3024 | 64K | TPOSTN | 2018-07-29 14:46:44 | 2018-07-29 14:51:00 | 2018-07-29 15:32:10 | -8.9 | 10.2 | 22.4283925 | 114.0843327 |
| 63287 | | STD | 2018-07-29 | 64K | KD3024 | 64K | TPOSTN | 2018-07-29 14:46:44 | 2018-07-29 14:51:00 | 2018-07-29 15:32:54 | -8.9 | 7.5 | 22.42745317 | 114.0823098 |
| 63287 | | STD | 2018-07-29 | 64K | KD3024 | 64K | TPOSTN | 2018-07-29 14:46:44 | 2018-07-29 14:51:00 | 2018-07-29 15:35:12 | -8.5 | 8.9 | 22.42465117 | 114.0756115 |
| 63287 | | STD | 2018-07-29 | 64K | KD3024 | 64K | TPOSTN | 2018-07-29 14:46:44 | 2018-07-29 14:51:00 | 2018-07-29 15:45:29 | -8.9 | 2.4 | 22.43752967 | 114.0668645 |
| 63287 | | STD | 2018-07-29 | 64K | KD3024 | 64K | TPOSTN | 2018-07-29 14:46:44 | 2018-07-29 14:51:00 | 2018-07-29 15:46:40 | -8.9 | 18.1 | 22.438146 | 114.0647972 |
| 63287 | | STD | 2018-07-29 | 64K | KD3024 | 64K | TPOSTN | 2018-07-29 14:46:44 | 2018-07-29 14:51:00 | 2018-07-29 15:50:25 | -9.9 | 2.4 | 22.44179683 | 114.052739 |
| 63287 | | STD | 2018-07-29 | 64K | KD3024 | 64K | TPOSTN | 2018-07-29 14:46:44 | 2018-07-29 14:51:00 | 2018-07-29 15:58:16 | -8.5 | 3.1 | 22.44437833 | 114.0306735 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:13:27 | -9.2 | 0 | 22.44410283 | 114.1676403 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:16:09 | -9.9 | 0 | 22.44816717 | 114.1663757 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:16:50 | -9.9 | 0 | 22.44992583 | 114.1671027 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:16:58 | -9.9 | 9.9 | 22.44994167 | 114.1671057 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:17:22 | -12.3 | 12.3 | 22.45071333 | 114.1672328 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:18:18 | -9.6 | 0 | 22.45195783 | 114.167301 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:20:42 | -9.9 | 0 | 22.45295133 | 114.1659648 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:21:53 | -9.6 | 0 | 22.452297 | 114.1655528 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:31:48 | -9.9 | 0 | 22.45737333 | 114.1442075 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:34:13 | -8.2 | 12 | 22.45056917 | 114.1376585 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:36:40 | -8.9 | 6.5 | 22.44587633 | 114.1324267 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:36:42 | -9.9 | 0.3 | 22.44585033 | 114.1324095 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:44:46 | -9.3 | 18.4 | 22.43152633 | 114.1046958 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:46:18 | -8.5 | 3.8 | 22.430447 | 114.1000525 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:46:20 | -9.9 | 0 | 22.43043367 | 114.1000142 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:47:24 | -8.6 | 20.1 | 22.42992017 | 114.0945405 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:49:21 | -9.9 | 0 | 22.42893033 | 114.0871985 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:50:52 | -8.5 | 0.3 | 22.428365 | 114.084143 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 07:56:27 | -9.9 | 0 | 22.42716067 | 114.0730692 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 08:01:04 | -11 | 0.3 | 22.43453317 | 114.0644437 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 08:09:51 | -10.6 | 0 | 22.44313717 | 114.050111 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 07:09:30 | 2018-07-30 07:12:00 | 2018-07-30 08:14:02 | -11.3 | 0 | 22.444783 | 114.0397457 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 08:44:44 | -8.2 | 10.6 | 22.44462833 | 114.0286358 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 08:47:14 | -9.2 | 10.2 | 22.446591 | 114.0346638 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 08:52:56 | -8.5 | 21.2 | 22.44437433 | 114.0437148 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 08:52:57 | -9.2 | 12 | 22.44437017 | 114.0437493 |

| | | | | | | | | | | | | | | |
|-------|--|-----|------------|------|--------|------|--------|---------------------|---------------------|---------------------|------|------|-------------|-------------|
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 08:55:46 | -9.6 | 0 | 22.44031067 | 114.0563268 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 08:56:05 | -9.6 | 0 | 22.44026033 | 114.0564033 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 08:56:18 | -9.6 | 9.6 | 22.44025383 | 114.0564315 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:12:59 | -9.9 | 0 | 22.4289005 | 114.0869598 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:14:31 | -8.5 | 5.8 | 22.42981783 | 114.0951693 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:14:33 | -9.2 | 0 | 22.429814 | 114.0951908 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:16:26 | -8.6 | 18.4 | 22.43141367 | 114.1029258 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:16:27 | -9.5 | 8.9 | 22.43143067 | 114.1029487 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:16:54 | -8.9 | 0 | 22.43179217 | 114.103291 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:17:56 | -8.2 | 9.6 | 22.43151467 | 114.1051592 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:17:57 | -9.6 | 0 | 22.431514 | 114.1051632 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:25:31 | -9.6 | 0 | 22.4410815 | 114.1271382 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:26:13 | -8.5 | 8.2 | 22.44203033 | 114.127875 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:32:33 | -9.6 | 9.6 | 22.45572383 | 114.1424553 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:33:14 | -8.9 | 0 | 22.45742933 | 114.1441988 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:42:07 | -9.2 | 0 | 22.45035233 | 114.1640325 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 08:37:53 | 2018-07-30 08:40:00 | 2018-07-30 09:47:53 | -8.9 | 0 | 22.45021533 | 114.1672587 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 10:21:08 | -9.6 | 0 | 22.44818283 | 114.1664607 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 10:41:58 | -8.5 | 0 | 22.44196933 | 114.1278845 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 10:42:54 | -8.9 | 0 | 22.4402515 | 114.1251135 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 10:53:42 | -9.6 | 0 | 22.42979267 | 114.0918172 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 10:54:56 | -8.9 | 9.9 | 22.428882 | 114.0869027 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 10:56:53 | -8.5 | 0 | 22.42747967 | 114.0823272 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 11:03:59 | -9.9 | 0.3 | 22.4337345 | 114.0704775 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 11:12:25 | -8.2 | 9.6 | 22.43752767 | 114.0668637 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 11:15:53 | -8.9 | 0.3 | 22.44014317 | 114.0562862 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 11:18:20 | -8.9 | 0 | 22.443894 | 114.0458952 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 11:19:59 | -9.9 | 0 | 22.44421483 | 114.040007 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | TPOSTN | 2018-07-30 10:15:38 | 2018-07-30 10:16:00 | 2018-07-30 11:26:14 | -9.6 | 0 | 22.44443867 | 114.0301617 |
| 63287 | | STD | NULL | NULL | KD 801 | NULL | NULL | 2018-07-30 12:15:32 | NULL | 2018-07-30 12:16:03 | -8.5 | 0 | 22.44543717 | 114.024818 |
| 63287 | | STD | NULL | NULL | KD 801 | NULL | NULL | 2018-07-30 12:15:32 | NULL | 2018-07-30 12:16:22 | -9.6 | 0 | 22.445614 | 114.0248373 |
| 63287 | | STD | NULL | NULL | KD 801 | NULL | NULL | 2018-07-30 12:15:32 | NULL | 2018-07-30 12:16:24 | -8.2 | 8.2 | 22.445619 | 114.0248375 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 12:22:26 | -9.9 | 9.9 | 22.44457783 | 114.0285327 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 12:23:50 | -9.9 | 0 | 22.44432683 | 114.0304812 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 12:24:45 | -9.6 | 0 | 22.44421817 | 114.0319035 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 12:27:34 | -8.9 | 0 | 22.44663233 | 114.0349563 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 12:28:57 | -8.5 | 0 | 22.44510933 | 114.0366732 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 12:29:25 | -9.2 | 0 | 22.44483217 | 114.036282 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 12:29:39 | -9.2 | 0 | 22.44482533 | 114.036217 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 12:37:12 | -8.5 | 0 | 22.4400285 | 114.0614342 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 12:39:24 | -9.2 | 0 | 22.43697 | 114.0681078 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 12:50:02 | -9.9 | 10.2 | 22.42714467 | 114.0819265 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 12:53:00 | -9.2 | 6.1 | 22.42977017 | 114.0916757 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:03:55 | -8.5 | 0 | 22.443657 | 114.1294615 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:07:34 | -8.9 | 0 | 22.45415817 | 114.1409897 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:10:25 | -8.5 | 10.2 | 22.45982467 | 114.1458073 |

| | | | | | | | | | | | | | | |
|-------|--|-----|------------|-----|--------|-----|--------|---------------------|---------------------|---------------------|------|------|-------------|-------------|
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:10:51 | -9.6 | 0 | 22.46038767 | 114.1460157 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:12:03 | -9.2 | 0 | 22.46103833 | 114.1485545 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:15:53 | -9.9 | 11.6 | 22.4523175 | 114.158739 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:19:14 | -8.9 | 0 | 22.45130333 | 114.164984 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:21:11 | -9.6 | 0 | 22.45294667 | 114.1664002 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:25:24 | -8.9 | 0 | 22.450413 | 114.1672967 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:25:28 | -8.5 | 9.9 | 22.45040383 | 114.1672948 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:25:29 | -9.9 | 0 | 22.45037433 | 114.1672985 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:26:10 | -9.6 | 9.6 | 22.45033533 | 114.1673218 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:26:11 | -8.6 | 1 | 22.45034317 | 114.1673218 |
| 63287 | | STD | 2018-07-30 | 64K | KD 801 | 64K | ULONGW | 2018-07-30 12:15:32 | 2018-07-30 12:18:00 | 2018-07-30 13:26:48 | -8.9 | 0 | 22.44892733 | 114.166817 |
| 63287 | | STD | 2018-07-30 | 64K | KA8625 | 64K | TPOSTN | 2018-07-30 16:42:34 | 2018-07-30 16:44:00 | 2018-07-30 17:03:59 | -8.6 | 7.6 | 22.4573915 | 114.1442407 |
| 63287 | | STD | 2018-07-30 | 64K | KA8625 | 64K | TPOSTN | 2018-07-30 16:42:34 | 2018-07-30 16:44:00 | 2018-07-30 17:22:58 | -8.5 | 7.2 | 22.428448 | 114.0844105 |
| 63287 | | STD | 2018-07-30 | 64K | KA8625 | 64K | TPOSTN | 2018-07-30 16:42:34 | 2018-07-30 16:44:00 | 2018-07-30 17:39:05 | -8.5 | 8.1 | 22.44179883 | 114.0527738 |
| 63287 | | STD | 2018-07-30 | 64K | KA8625 | 64K | ULONGW | 2018-07-30 18:06:14 | 2018-07-30 18:10:00 | 2018-07-30 19:06:58 | -9 | 4 | 22.45982533 | 114.145797 |

| emp_no | name | depot_abbr | operating_date | route_no | run_no | bus_no | operating_route | departure_from | departure_time | operating_time | duration | max_speed | gps_pos_lat | gps_pos_long | speed_limit |
|--------|------|------------|----------------|----------|--------|--------|-----------------|----------------|---------------------|---------------------|----------|-----------|-------------|--------------|-------------|
| 4820 | | TMD | 30/8/2018 | 269C | S10 | SJ7884 | 268B | 紅磡碼頭 | 30/08/2018 19:00:00 | 30/08/2018 19:08:47 | 23 | 72 | 22.29976287 | 114.183259 | 50 |
| 66259 | | LCD | 30/8/2018 | 49X | 31 | KU5892 | 49X | 廣源 | 30/08/2018 18:52:00 | 30/08/2018 19:29:25 | 20 | 75 | 22.37763917 | 114.1264437 | 80 |
| 66477 | | KBD | 30/8/2018 | 11 | S03 | LB6564 | 11 | 九龍站 | 30/08/2018 17:20:00 | 30/08/2018 17:22:15 | 19 | 68 | 22.30263683 | 114.162713 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | SG9076 | 76K | 朗屏 | 30/08/2018 15:45:00 | 30/08/2018 16:03:58 | 46 | 60 | 22.44455657 | 114.0474957 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 清河 | 30/08/2018 21:00:00 | 30/08/2018 21:09:46 | 34 | 62 | 22.50171217 | 114.1040198 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 清河 | 30/08/2018 21:00:00 | 30/08/2018 21:19:48 | 45 | 63 | 22.49535183 | 114.0739558 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 清河 | 30/08/2018 21:00:00 | 30/08/2018 21:22:13 | 31 | 61 | 22.48979233 | 114.0611012 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 清河 | 30/08/2018 21:00:00 | 30/08/2018 21:22:48 | 50 | 63 | 22.48550383 | 114.0587927 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 朗屏 | 30/08/2018 22:30:00 | 30/08/2018 22:47:06 | 36 | 61 | 22.445104 | 114.0481058 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 朗屏 | 30/08/2018 22:30:00 | 30/08/2018 22:56:13 | 30 | 62 | 22.48847233 | 114.0591845 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 朗屏 | 30/08/2018 22:30:00 | 30/08/2018 23:05:50 | 44 | 59 | 22.50333517 | 114.1044208 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 清河 | 30/08/2018 23:30:00 | 30/08/2018 23:37:06 | 33 | 60 | 22.502533 | 114.112685 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 清河 | 30/08/2018 23:30:00 | 30/08/2018 23:38:20 | 54 | 63 | 22.50198483 | 114.1051528 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 清河 | 30/08/2018 23:30:00 | 30/08/2018 23:40:28 | 33 | 62 | 22.5031395 | 114.0865055 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 清河 | 30/08/2018 23:30:00 | 30/08/2018 23:47:40 | 46 | 62 | 22.4977395 | 114.0766883 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 清河 | 30/08/2018 23:30:00 | 30/08/2018 23:50:39 | 119 | 64 | 22.4898545 | 114.0612697 | 50 |
| 80972 | | TMD | 30/8/2018 | 76K | 01 | MU6285 | 76K | 清河 | 30/08/2018 23:30:00 | 30/08/2018 23:53:31 | 30 | 61 | 22.46827717 | 114.0549445 | 50 |
| 54797 | | STD | 30/8/2018 | 286X | 02 | MW4225 | 46X | 美孚 | 31/08/2018 00:20:00 | 31/08/2018 00:30:46 | 23 | 71 | 22.363343 | 114.1321898 | 50 |
| 90105 | | OCD | 30/8/2018 | A41 | 30 | UD1791 | A41 | 地面運輸中心 | 30/08/2018 06:20:00 | 30/08/2018 06:44:44 | 39 | 65 | 22.36330983 | 114.1182835 | 50 |
| 90105 | | OCD | 30/8/2018 | A41 | 30 | UD3393 | A41 | 愉翠苑 | 30/08/2018 11:45:00 | 30/08/2018 12:15:00 | 35 | 65 | 22.36562517 | 114.1212438 | 50 |
| 90105 | | OCD | 30/8/2018 | A41 | 30 | UD3393 | A41 | 地面運輸中心 | 30/08/2018 13:00:00 | 30/08/2018 13:23:17 | 30 | 62 | 22.36662117 | 114.1212702 | 50 |
| 91037 | | OCD | 30/8/2018 | N42 | 01 | SJ9997 | A41P | 烏溪沙站 | 30/08/2018 20:10:00 | 30/08/2018 20:53:57 | 35 | 70 | 22.36302202 | 114.1177044 | 50 |
| 91060 | | OCD | 30/8/2018 | A41P | 03 | SJ9997 | A41P | 烏溪沙站 | 30/08/2018 16:40:00 | 30/08/2018 17:31:00 | 19 | 69 | 22.36172982 | 114.1150244 | 50 |
| 92159 | | OCD | 30/8/2018 | S 1 | 02 | TJ5721 | S 1 | 東涌鐵路站 | 30/08/2018 22:40:00 | 30/08/2018 23:00:37 | 32 | 59 | 22.31228633 | 113.9405027 | 50 |
| 92335 | | OCD | 30/8/2018 | A41 | 03 | UD6659 | A41 | 愉翠苑 | 30/08/2018 19:25:00 | 30/08/2018 19:59:36 | 20 | 68 | 22.362861 | 114.1171562 | 50 |
| 92454 | | OCD | 30/8/2018 | A41 | 03 | UD6659 | A41 | 愉翠苑 | 30/08/2018 08:45:00 | 30/08/2018 09:19:14 | 20 | 70 | 22.36296433 | 114.117418 | 50 |
| 92570 | | OCD | 30/8/2018 | S 1 | S01 | TS1334 | S 1 | 東涌鐵路站 | 30/08/2018 19:30:00 | 30/08/2018 19:36:47 | 21 | 70 | 22.30958717 | 113.9387048 | 50 |
| 92570 | | OCD | 30/8/2018 | S 1 | S01 | TS1334 | S 1 | 東涌鐵路站 | 30/08/2018 19:30:00 | 30/08/2018 19:47:04 | 23 | 70 | 22.31225383 | 113.9404715 | 50 |
| 92570 | | OCD | 30/8/2018 | S 1 | S01 | TS1334 | S 1 | 東涌鐵路站 | 30/08/2018 19:30:00 | 30/08/2018 19:49:48 | 31 | 71 | 22.30185783 | 113.9362462 | 50 |
| 92745 | | OCD | 30/8/2018 | A41P | S02 | SP6096 | A41P | 烏溪沙站 | 30/08/2018 17:10:00 | 30/08/2018 18:06:19 | 21 | 70 | 22.36195378 | 114.1154878 | 50 |
| 92746 | | OCD | 30/8/2018 | A41 | 05 | UL2861 | A41 | 愉翠苑 | 30/08/2018 23:00:00 | 30/08/2018 23:24:35 | 18 | 70 | 22.361804 | 114.1153557 | 50 |
| 99531 | | OCD | 30/8/2018 | S 1 | 02 | TJ5721 | S 1 | 東涌鐵路站 | 30/08/2018 06:00:00 | 30/08/2018 06:20:18 | 33 | 63 | 22.31232217 | 113.9405268 | 50 |
| 99531 | | OCD | 30/8/2018 | S 1 | 02 | TJ5721 | S 1 | 東涌鐵路站 | 30/08/2018 06:40:00 | 30/08/2018 07:00:45 | 34 | 63 | 22.3123745 | 113.940571 | 50 |
| 99531 | | OCD | 30/8/2018 | S 1 | 02 | TJ5721 | S 1 | 東涌鐵路站 | 30/08/2018 08:07:00 | 30/08/2018 08:30:16 | 31 | 60 | 22.3121695 | 113.9403942 | 50 |
| 99531 | | OCD | 30/8/2018 | S 1 | 02 | TJ5721 | S 1 | 東涌鐵路站 | 30/08/2018 08:52:00 | 30/08/2018 09:15:36 | 34 | 61 | 22.31241083 | 113.9405785 | 50 |
| 99531 | | OCD | 30/8/2018 | S 1 | 02 | TJ5721 | S 1 | 東涌鐵路站 | 30/08/2018 09:37:00 | 30/08/2018 09:57:24 | 33 | 64 | 22.31241 | 113.9405998 | 50 |
| 99531 | | OCD | 30/8/2018 | S 1 | 02 | TS1334 | S 1 | 東涌鐵路站 | 30/08/2018 15:45:00 | 30/08/2018 16:03:23 | 34 | 62 | 22.31264083 | 113.9407797 | 50 |
| 99733 | | OCD | 30/8/2018 | A41P | 01 | UD1269 | A41P | 烏溪沙站 | 30/08/2018 16:10:00 | 30/08/2018 16:57:13 | 23 | 70 | 22.3624625 | 114.1163238 | 50 |
| 65129 | | KBD | 30/8/2018 | 290 | 10 | TV8166 | 290 | 彩明 | 30/08/2018 12:50:00 | 30/08/2018 13:24:00 | 15 | 70 | 22.32380817 | 114.2272092 | 50 |

| emp_no | name | depot_abbr | operating_date | route_no | run_no | bus_no | operating_route | departure_from | departure_time | operating_time | duration | max_speed | gps_pos_lat | gps_pos_long | speed_limit |
|--------|------|------------|----------------|----------|--------|--------|-----------------|----------------|---------------------|---------------------|----------|-----------|-------------|--------------|-------------|
| 5208 | | STD | 2/9/2018 | 73X | 06 | UF6574 | 73X | 荖灣如心廣場 | 02/09/2018 12:56:00 | 02/09/2018 13:19:31 | 5 | 83 | 22.38164767 | 114.1755357 | 80 |
| 5592 | | TMD | 2/9/2018 | 68A | 08 | UE5650 | 68A | 朗屏 | 02/09/2018 23:20:00 | 02/09/2018 23:26:01 | 23 | 70 | 22.44379967 | 114.0164498 | 50 |
| 56758 | | TMD | 2/9/2018 | 261 | 90 | VG4730 | 261 | 天平 | 02/09/2018 11:50:00 | 02/09/2018 12:21:01 | 2 | 80 | 22.41539933 | 113.9864975 | 80 |
| 56895 | | STD | 2/9/2018 | 47X | P21 | UR9070 | 47X | 葵盛東 | 02/09/2018 14:10:00 | 02/09/2018 14:38:37 | 6 | 82 | 22.38102583 | 114.1762305 | 80 |
| 56895 | | STD | 2/9/2018 | 47X | P21 | UR9070 | 47X | 葵盛東 | 02/09/2018 14:10:00 | 02/09/2018 14:38:44 | 2 | 80 | 22.38002667 | 114.1773172 | 80 |
| 56895 | | STD | 2/9/2018 | 47X | P21 | UR9070 | 47X | 葵盛東 | 02/09/2018 18:39:00 | 02/09/2018 19:03:05 | 10 | 82 | 22.38136183 | 114.1759077 | 80 |
| 56895 | | STD | 2/9/2018 | 47X | P21 | UR9070 | 47X | 葵盛東 | 02/09/2018 21:24:00 | 02/09/2018 21:49:45 | 8 | 83 | 22.37921367 | 114.17816 | 80 |
| 61089 | | STD | 2/9/2018 | 87D | 08 | VR4634 | 87D | 錦英苑 | 02/09/2018 05:45:00 | 02/09/2018 05:58:56 | 52 | 63 | 22.40430317 | 114.2199263 | 50 |
| 61089 | | STD | 2/9/2018 | 87D | 08 | VR4634 | 87D | 紅磡站 | 02/09/2018 07:00:00 | 02/09/2018 07:39:16 | 56 | 64 | 22.40011617 | 114.2134247 | 50 |
| 63695 | | TMD | 2/9/2018 | 63X | 03 | VC5313 | 63X | 佐敦渡華路 | 02/09/2018 22:00:00 | 02/09/2018 22:34:25 | 2 | 80 | 22.35592767 | 114.028387 | 80 |
| 63695 | | TMD | 2/9/2018 | 63X | 03 | VC5313 | 63X | 佐敦渡華路 | 02/09/2018 22:00:00 | 02/09/2018 22:34:30 | 6 | 80 | 22.35582633 | 114.0273177 | 80 |
| 64911 | | TMD | 2/9/2018 | 77K | 30 | JY8490 | 77K | 上水 | 02/09/2018 17:35:00 | 02/09/2018 17:54:50 | 49 | 70 | 22.465998 | 114.0543168 | 50 |
| 64911 | | TMD | 2/9/2018 | 77K | 30 | JY8490 | 77K | 上水 | 02/09/2018 17:35:00 | 02/09/2018 17:55:42 | 24 | 69 | 22.45722667 | 114.0523238 | 50 |
| 64911 | | TMD | 2/9/2018 | 77K | 30 | JY8490 | 77K | 元朗鳳翔路 | 02/09/2018 18:40:00 | 02/09/2018 19:14:10 | 18 | 70 | 22.44589583 | 114.0487792 | 50 |
| 64911 | | TMD | 2/9/2018 | 77K | 30 | KA9153 | 77K | 上水 | 02/09/2018 23:25:00 | 02/09/2018 23:43:29 | 33 | 63 | 22.44444283 | 114.041087 | 50 |
| 66640 | | STD | 2/9/2018 | 280X | 03 | MG9003 | 280X | 尖東(麼地道) | 02/09/2018 12:20:00 | 02/09/2018 12:49:21 | 2 | 80 | 22.3798385 | 114.1858525 | 80 |
| 68336 | | TMD | 2/9/2018 | 58M | 05 | UF4701 | 58M | 良景 | 02/09/2018 11:30:00 | 02/09/2018 12:11:17 | 18 | 70 | 22.361221 | 114.1314887 | 50 |
| 73230 | | TMD | 2/9/2018 | 64K | 06 | RW4436 | 64K | 元朗(西) | 02/09/2018 06:40:00 | 02/09/2018 07:23:27 | 41 | 65 | 22.4586211 | 114.1505536 | 50 |
| 73230 | | TMD | 2/9/2018 | 64K | 06 | RW4436 | 64K | 大埔墟站 | 02/09/2018 07:51:00 | 02/09/2018 08:07:23 | 41 | 65 | 22.45451195 | 114.1546421 | 50 |
| 73230 | | TMD | 2/9/2018 | 64K | 06 | RT6816 | 64K | 元朗(西) | 02/09/2018 13:02:00 | 02/09/2018 13:57:11 | 39 | 64 | 22.45819157 | 114.1508551 | 50 |
| 85316 | | TMD | 2/9/2018 | 251A | 03 | SG4825 | 251A | 錦上路站 | 02/09/2018 07:05:00 | 02/09/2018 07:13:29 | 31 | 61 | 22.42125802 | 114.068016 | 50 |
| 85316 | | TMD | 2/9/2018 | 251A | 03 | LN6140 | 251A | 錦上路站 | 02/09/2018 12:50:00 | 02/09/2018 12:59:03 | 31 | 60 | 22.4212705 | 114.0679735 | 50 |
| 85316 | | TMD | 2/9/2018 | 251A | 03 | LN6140 | 251A | 錦上路站 | 02/09/2018 14:50:00 | 02/09/2018 14:56:25 | 41 | 61 | 22.42123817 | 114.0679235 | 50 |
| 90001 | | OCD | 2/9/2018 | A31 | 11 | UL1733 | A31P | 愉景新城 | 02/09/2018 19:45:00 | 02/09/2018 20:38:22 | 17 | 71 | 22.3174765 | 113.935447 | 50 |
| 90094 | | OCD | 2/9/2018 | A41 | 30 | UF4989 | A41 | 愉翠苑 | 02/09/2018 09:05:00 | 02/09/2018 09:37:17 | 31 | 59 | 22.36308433 | 114.1176357 | 50 |
| 92055 | | OCD | 2/9/2018 | E32 | 02 | SS7413 | E32 | 葵芳站 | 02/09/2018 05:35:00 | 02/09/2018 05:36:30 | 19 | 71 | 22.36159783 | 114.1315398 | 50 |
| 92154 | | OCD | 2/9/2018 | E34B | 03 | VN4766 | E34B | 媽橫路山水樓 | 02/09/2018 13:20:00 | 02/09/2018 14:15:57 | 31 | 61 | 22.29777417 | 113.9349645 | 50 |
| 92158 | | OCD | 2/9/2018 | A47X | L21 | UE9578 | A47X | 地面運輸中心 | 02/09/2018 22:05:00 | 02/09/2018 22:29:53 | 11 | 81 | 22.32474967 | 114.1348045 | 80 |
| 92176 | | OCD | 2/9/2018 | A41P | S01 | TA1413 | A41P | 烏溪沙站 | 02/09/2018 12:19:00 | 02/09/2018 13:05:44 | 57 | 64 | 22.3630985 | 114.118177 | 50 |
| 92178 | | OCD | 2/9/2018 | E34B | 06 | SL3599 | E34B | 媽橫路山水樓 | 03/09/2018 00:00:00 | 03/09/2018 00:40:14 | 27 | 71 | 22.29778097 | 113.9350231 | 50 |
| 92362 | | OCD | 2/9/2018 | E34A | 01 | SV2935 | E34A | 天水圍市中心 | 02/09/2018 14:15:00 | 02/09/2018 15:23:45 | 19 | 70 | 22.29907917 | 113.9347103 | 50 |
| 92368 | | OCD | 2/9/2018 | E34B | S31 | SM9420 | E34B | 媽橫路山水樓 | 02/09/2018 06:24:00 | 02/09/2018 07:14:50 | 39 | 65 | 22.29699608 | 113.9347372 | 50 |
| 92368 | | OCD | 2/9/2018 | E34B | S31 | SM9420 | E34B | 媽橫路山水樓 | 02/09/2018 14:29:00 | 02/09/2018 15:31:26 | 30 | 61 | 22.31899142 | 113.9377328 | 50 |
| 92564 | | OCD | 2/9/2018 | N31 | 02 | TJ9247 | N31 | 地面運輸中心 | 02/09/2018 03:15:00 | 02/09/2018 03:29:31 | 16 | 70 | 22.2922265 | 113.927509 | 50 |
| 92645 | | OCD | 2/9/2018 | E34B | 30 | PV7003 | E34B | 媽橫路山水樓 | 02/09/2018 11:30:00 | 02/09/2018 12:13:04 | 36 | 69 | 22.29227583 | 113.9274667 | 50 |
| 92645 | | OCD | 2/9/2018 | E34B | 30 | PV7003 | E34B | 地面運輸中心 | 02/09/2018 13:20:00 | 02/09/2018 13:30:29 | 15 | 69 | 22.291992 | 113.9282645 | 50 |
| 92694 | | OCD | 2/9/2018 | E34B | 04 | RJ5802 | E34B | 媽橫路山水樓 | 02/09/2018 14:50:00 | 02/09/2018 15:31:18 | 15 | 71 | 22.29167433 | 113.9294682 | 50 |
| 92694 | | OCD | 2/9/2018 | E34B | 04 | RJ5802 | E34B | 媽橫路山水樓 | 02/09/2018 14:50:00 | 02/09/2018 15:36:16 | 20 | 71 | 22.29829567 | 113.9348775 | 50 |
| 92694 | | OCD | 2/9/2018 | E34B | 04 | RJ5802 | E34B | 媽橫路山水樓 | 02/09/2018 17:35:00 | 02/09/2018 18:18:42 | 17 | 71 | 22.29170983 | 113.9295903 | 50 |
| 92694 | | OCD | 2/9/2018 | E34B | 04 | RJ5802 | E34B | 媽橫路山水樓 | 02/09/2018 17:35:00 | 02/09/2018 18:31:07 | 16 | 71 | 22.31799367 | 113.9362523 | 50 |
| 92694 | | OCD | 2/9/2018 | E34B | 04 | RJ5802 | E34B | 媽橫路山水樓 | 02/09/2018 21:15:00 | 02/09/2018 22:07:26 | 20 | 71 | 22.29806583 | 113.9348673 | 50 |
| 92694 | | OCD | 2/9/2018 | E34B | 04 | RJ5802 | E34B | 媽橫路山水樓 | 02/09/2018 21:15:00 | 02/09/2018 22:13:19 | 21 | 71 | 22.31774367 | 113.9362313 | 50 |
| 92761 | | OCD | 2/9/2018 | N31 | 04 | UD 566 | E32 | 機場博覽館 | 02/09/2018 21:35:00 | 02/09/2018 21:48:36 | 17 | 70 | 22.29226683 | 113.9274535 | 50 |
| 92769 | | OCD | 2/9/2018 | E34A | 01 | SR9881 | E34A | 天水圍市中心 | 02/09/2018 11:00:00 | 02/09/2018 12:02:19 | 15 | 69 | 22.29163683 | 113.929709 | 50 |
| 92779 | | OCD | 2/9/2018 | E34B | 04 | RJ5802 | E34B | 地面運輸中心 | 02/09/2018 13:30:00 | 02/09/2018 13:41:43 | 39 | 61 | 22.29250183 | 113.9268295 | 50 |
| 99566 | | OCD | 2/9/2018 | E34A | 07 | PF1592 | E34B | 地面運輸中心 | 02/09/2018 23:27:00 | 02/09/2018 23:30:07 | 67 | 66 | 22.29729767 | 113.9357752 | 50 |
| 99577 | | OCD | 2/9/2018 | A41 | 30 | UC9062 | A41 | 愉翠苑 | 02/09/2018 21:05:00 | 02/09/2018 21:39:01 | 37 | 62 | 22.36313933 | 114.1175738 | 50 |
| 99577 | | OCD | 2/9/2018 | A41 | 30 | UC9062 | A41 | 愉翠苑 | 02/09/2018 23:30:00 | 02/09/2018 23:54:49 | 33 | 65 | 22.36338533 | 114.1182755 | 50 |
| 99607 | | OCD | 2/9/2018 | N42 | 01 | ST6063 | N42 | 東涌鐵路站 | 02/09/2018 00:20:00 | 02/09/2018 00:20:54 | 26 | 69 | 22.29139633 | 113.9308967 | 50 |

| emp_no | name | depot_abbr | operating_date | route_no | run_no | bus_no | operating_route | departure_from | departure_time | operating_time | duration | max_speed | gps_pos_lat | gps_pos_long | speed_limit |
|--------|------|------------|----------------|----------|--------|--------|-----------------|----------------|---------------------|---------------------|----------|-----------|-------------|--------------|-------------|
| 1490 | | LCD | 6/9/2018 | 31B | 05 | TR6812 | 67M | 葵芳站 | 06/09/2018 06:10:00 | 06/09/2018 06:32:11 | 4 | 81 | 22.35889567 | 114.0342057 | 80 |
| 61628 | | LCD | 6/9/2018 | 72 | 08 | KS6835 | 72 | 太和 | 06/09/2018 11:35:00 | 06/09/2018 12:04:58 | 10 | 83 | 22.3969625 | 114.2010768 | 80 |
| 62256 | | STD | 6/9/2018 | N281 | 30 | UR5632 | N281 | 紅磡站 | 06/09/2018 03:40:00 | 06/09/2018 04:01:21 | 23 | 71 | 22.327369 | 114.1785095 | 50 |
| 66311 | | STD | 6/9/2018 | N73 | 01 | TC7791 | N73 | 沙田市中心 | 06/09/2018 01:00:00 | 06/09/2018 01:23:50 | 15 | 68 | 22.45670433 | 114.151965 | 50 |
| 66311 | | STD | 6/9/2018 | N73 | 01 | TC7791 | N73 | 落馬洲 | 06/09/2018 02:10:00 | 06/09/2018 02:37:17 | 17 | 69 | 22.45849017 | 114.1506875 | 50 |
| 66311 | | STD | 6/9/2018 | N73 | 01 | TC7791 | N73 | 落馬洲 | 06/09/2018 05:40:00 | 06/09/2018 06:08:24 | 25 | 70 | 22.45818783 | 114.1508478 | 50 |
| 73634 | | STD | 6/9/2018 | 89C | S03 | KU9771 | 89C | 恒安 | 06/09/2018 15:30:00 | 06/09/2018 15:50:54 | 24 | 70 | 22.4043495 | 114.2199583 | 50 |
| 5964 | | KBD | 6/9/2018 | 115 | 01 | UY3949 | 61X | 屯門市中心 | 06/09/2018 06:37:00 | 06/09/2018 06:47:56 | 4 | 80 | 22.377376 | 113.9867863 | 80 |