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| **Annexure MRTS202.1 (November 2021)** |
| **Variable Message Signs** |
| **Commissioning Requirements** |
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| **Contract Number**  |  |
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| CT: Commissioning report sheetVariable message signs |
| Device information |
| 1.1 | Test date: |  |
| 1.2 | Site / location number and ref. dwg: |  |
| 1.3 | Site location description: |  |
| 1.4 | GPS coordinates: |  |
| 1.5 | VMS serial number: |  |
| 1.6 | Firmware version number: |  |
| 1.7 | Pixel dimensions: |  |
| 1.8 | VMS type / size: |  |
| 1.9 | Baud rate: |  |
| 1.10 | Serial protocol: |  |
| 1.11 | FP port number: |  |
| 1.12 | Facility switch message 1: |  |
| 1.13 | Facility switch message 2: |  |
| 1.14 | Facility switch message 3: |  |
| 1.15 | Posted speed at VMS: |  |
| 1.16 | Conspicuity lantern size: |  |
| 1.17 | TMC commissioning reference number: |  |

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| Default group controller configuration |
|  | Test step | Expected condition/ result | Pass/ Fail/ NA | Signed |
| 2.1 | Check STREAMS connection | FP serial protocol:-FP baud rate:- |  |  |
| 2.2 | Check processor fault blank time (processor fault) | PFBT = |  |  |
| 2.3 | Confirm session timeout setting (STREAMS to Sign Controller) | STO = |  |  |
| 2.4 | Check communications check with sign setting | CST = |  |  |
| 2.5 | Confirm communications timeout setting (Sign Controller to VMS) | CTO = |  |  |
| 2.6 | Confirm power recovery delay time setting | PRDT = |  |  |
| 2.7 | Confirm Minimum Blank Time Setting | MBT = |  |  |
| 2.8 | Confirm dimming control operation | Cover light sensor and observe dimming of the sign. |  |  |
| 2.9 | Confirm contiguous pixel failure setting | Vertical =Horizontal = |  |  |
| 2.10 | Confirm multi LED failure (MLEDF) setting | MLEDF = 20% |  |  |
| 2.11 | Check flashing display elements setting | Cycle time =Duty cycle (lit/unlit) = |  |  |
| 2.12 | Over-temperature setting | OTS = |  |  |

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| Pre-commissioning checks |
|  | Test step | Expected condition/ result | Pass/ Fail/ NA | Signed |
| 3.1 | Check that an IAT has been performed | IAT available on site |  |  |
| 3.2 | Check that all equipment is permanently labelled as per the drawings. | Labels are fitted, and are of a durable, non-self-adhesive type |  |  |
| 3.3 | Check STREAMS programming | STREAMS spreadsheet has been filled out and Transport and Main Roads has entered STREAMS programing information |  |  |
| 3.4 | Check site information | Verify the site information matches the Transport and Main Roads numbering plan |  |  |
| 3.5 | Check Traffic Management Centre connectivity available | All switches on sites are on at the time of testing and connected to Field Processor |  |  |

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| VMS test by Transport and Main Roads via Streams at the Traffic Management Centre (TMC) |
|  | Test step | Expected condition/ result | Pass/ Fail/ NA | Signed |
| 4.1 | Check STREAMS connection | FP Port is enabled and VMS is visible in STREAMS |  |  |
| 4.2 | Check STREAMS control | Display a standard VMS message |  |  |
| 4.3 | Check STREAMS control | Display a custom message on VMS |  |  |
| 4.4 | Check facility switch message 1 | VMS displaysFacility Switch Message 1 |  |  |
| 4.5 | Check facility switch message 2  | VMS displaysFacility Switch Message 2 |  |  |
| 4.6 | Check facility switch message 3 | VMS displaysFacility Switch Message 3 |  |  |
| 4.7 | Check power auto recovery | Switch main circuit breaker to VMS and check auto reconnects with STREAMS |  |  |
| 4.8 | Check comms auto recovery | Disconnect comms from FP and check auto reconnects with STREAMS |  |  |
| 4.9 | Check fault log | Fault log contains no active faults |  |  |
| 4.10 | Clear fault Log | Fault log clears |  |  |

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| Summary of defects – Record information of tests above that are a “Fail” |
|  | CT ref. | Defect description | Rectification required | Signed |
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