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| **Annexure MRTS06.1 (November 2018)** | | |
| **Reinforced Soil Structures** | | |
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| **Specific Contract Requirements** | | |
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| **Contract Number** | |  |
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| Note: | Clause references within brackets in this Annexure refer to Clauses in the parent Technical Specification MRTS06 unless otherwise noted. | | |

Summary of RSW Design Submission for Geotechnical Assessment

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| To: |  | Date: |  |
| Attention: |  | Wall No: |  |
| Contract No: |  | Chainage: |  |
| Site: |  | Control Line: |  |

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| Proprietary wall system Only approved products per MRTS06 | |
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| MaterialsSoil | |
| Selected backfill (constant volume friction angle) |  |
| General backfill (constant volume friction angle) |  |
| **Foundation** |  |
| Effective Cohesion Intercept |  |
| Effective Angle of Shearing Resistance |  |
| Undrained Strength |  |
| Note: Refer Geotechnical Report No. |  |
| **Selected / General Backfill Test Certificates** |  |
| Q 181 C (July 2010)1 |  |
| **Selected Backfill Test Certificate** |  |
| Grading² |  |
| Permeability³ |  |
| 1-3  Test certificates shall be submitted prior to construction as per MRTS06 | |

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| Steel reinforcement | |
| Tensile Strength (yield stress) | MPa |
| Sacrificial Thickness | mm |
| Cross Bar Spacing & Diameter | mm |
| Design Life | years |

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| Geosynthetic reinforcement (Clause 7.4.3) | |
|  | Conformance with Clause 7.4.3 of MRTS06 is required.  Examples:   * Creep rupture strength * Long-term connection strength * Service temperature * Stiffness * Long-term creep |

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| Loadings | | |
| Surcharge, q (kPa) =  Surcharge 20 kPa in trafficable area and 10 kPa otherwise |  |
| Water Pressure (kPa) |  |
| Wind Loading |  |
| Horizontal Force from Abutment Bearing |  |
| Horizontal Force from Headstock (kN/m) |  |
| Crash Barrier Loading (kN/column) |  |

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| Drawings | | |
| Layout Plan (General Arrangement) |  |
| Contour Plan |  |
| Design Drawings |  |
| Elevation (including mesh layout) |  |
| Sections (actual sections with r/f and drainage details) |  |

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| Analysis of sections and results | | |
|  | Number of Sections analysed: |  |
| Note: Every change of reinforcement strip configuration (e.g. length) must be substantiated by analysis. The output of every analysis must be communicated via a cross-section drawing. | |

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| RMS Specification (R57) | | | | | | | | | | | |
| **Height (m) H1** | **Height (m) H2** | **Slope Angle (deg)** | | **Min. Embedment (mm)** | **Strap Length (mm)** | **Area / Remarks** | **Load Factors** | **FOS Sliding** | **FOS Over-turning** | **FOS Rupture** | **FOS Pullout** |
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| Foundation bearing requirements | |
| Applied Meyerhoff Pressure (kPa)  (under Load Case F: R57) |  |
| Maximum Vertical Force on Base, Rv (kN/m) |  |
| Corresponding Horizontal Force on Base, Rh (kN/m) |  |
| Applied Bearing Pressure (from the wall drawings) (kPa) |  |
| Site Verified Allowable Pressure⁴  i.e. Estimated ultimate vertical bearing pressure ≥  divided by FOS of 3 | Applied Bearing Pressure |
| ⁴ Site verification of foundation condition shall be submitted prior to construction as per (Clause 9.3) of MRTS06 | |

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| Global stability (Clause 8.3) As per Clause 8.3 of MRTS06 | |
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| Inundation due to Temporary or Permanent Flooding A copy of the hydraulic report, if applicable, to be forwarded. | |
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| Interaction or Constructability Issues | |
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| Other Considerations | | |
| Bent/Slanting Reinforcement (mesh) |  |  |
| Transverse Differential Settlement |  |  |
| Longitudinal Settlements |  |  |
| Should have horizontal reinforcement in the absence of any unavoidable constraint (in which case the maximum slope of the strips should not be steeper than 1V:4H). | | |