**Quality Control Plan for Pilot Embankment Protection Work**

**Type A Protective Work Start: Finish: Length: Start of reporting period: Report Finished Date:**

| **Work Item/Material** | **Unit** | **Work Executed/Material Consumed in Last 30 days** | **Name of Test** | **Relevant Test Standard** | **No of Test Required as Per Specification** | **No of Test Performed** | **No of Test Passing Threshold Value** | **No of Test Do Not Passing Threshold Value** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CC Block | Nos |  | Compressive Strength by Core Cutting | ASTM C42 |  |  |  |  |  |
| Cement | Kg |  | Fineness Test | ASTM C786 |  |  |  |  |  |
| soundness Test | ASTM C151 |  |  |  |  |  |
| Setting Time | ASTM C403 |  |  |  |  |  |
| Fine Aggregate | cum |  | Fineness Modulus | ASTM C127 |  |  |  |  |  |
| Coarse Aggregate | cum |  | Gradation Test | ASTM C36 |  |  |  |  |  |
| Specific Gravity and Water Absorption | AASHTO T85 |  |  |  |  |  |
| Aggregate Impact Value | BS812-112 |  |  |  |  |  |
| Los Angles Abrasion Test | AASHTO T 96 |  |  |  |  |  |
| Geo Textile Filter | sqm |  | Mass per unit area | ASTM D 5261 |  |  |  |  |  |
| Thickness under a pressure of 2 kPa | ASTM D 5199 |  |  |  |  |  |
| Apparent / Effective Opening size | ASTM 4751 |  |  |  |  |  |
| Horizontal Permeability | ASTM D 4491 |  |  |  |  |  |
| Vertical Permeability - | ASTM D 4491 |  |  |  |  |  |
| Grab Tensile Strength | ASTM D 4632 |  |  |  |  |  |
| Strip Tensile Strength |  |  |  |  |  |  |
| CBR Puncture Resistance | ASTM D6241 |  |  |  |  |  |
| Elongation at maximum force (machine direction MD) |  |  |  |  |  |  |
| Elongation at maximum force (CMD) |  |  |  |  |  |  |
| Permeability (Velocity Index for a head loss of 50 mm- V H50 |  |  |  |  |  |  |
| Ultra-Violet (UV) Resistance | ASTM 4355 |  |  |  |  |  |
| Submersible Embankment Construction | cum |  | Atterberg's Limit  (Plastic Limit &  Liquid Limit) | ASTM D 4318 |  |  |  |  |  |
| Grain Size Distribution |  |  |  |  |  |  |
| Standard Proctor Test | AASHTO T99 |  |  |  |  |  |
| Moisture Content | ASTM D2216 |  |  |  |  |  |
| Dry Density |  |  |  |  |  |  |

Enclosure: Test Reports Stated Above.

This is to certify that all test has been performed as per relevant standard and work has been done with full conformity of specification.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sub-Divisional Engineer** | **SAE/SO** | **Field Supervision Engineer** | **Field Inspector** | **Representative of Contractor** | **Representative of project Director** |

**Approved By**

**Concerned Executive Engineer/Project Manager**