# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** CONSTELL CONSULTANTS PVT. LTD. (LABORATORY SECTION), 31, MANIK BOSE GHAT STREET, AHIRITOLA, KOLKATA, WEST BENGAL, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-6893 **Page No** 1 of 2

**Validity** 14/02/2022 to 13/02/2024 **Last Amended on** 22/04/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | MECHANICAL- SOIL AND ROCK | ROCK | Density | IS 13030 |
| 2 | MECHANICAL- SOIL AND ROCK | ROCK | Point Load Strength Index | IS 8764 |
| 3 | MECHANICAL- SOIL AND ROCK | ROCK | Porosity | IS 13030 |
| 4 | MECHANICAL- SOIL AND ROCK | ROCK | Slake durability Test | IS 10050 |
| 5 | MECHANICAL- SOIL AND ROCK | ROCK | Tensile Strength by Brazilian Test Method | IS 10082 |
| 6 | MECHANICAL- SOIL AND ROCK | ROCK | True Specific Gravity | IS 1122 |
| 7 | MECHANICAL- SOIL AND ROCK | ROCK | Unconfined Compressive Strength | IS 9143 |
| 8 | MECHANICAL- SOIL AND ROCK | ROCK | Water Absorption | IS 1124 |
| 9 | MECHANICAL- SOIL AND ROCK | ROCK | Water Content | IS 13030 |
| 10 | MECHANICAL- SOIL AND ROCK | SOIL | Direct Shear Test (Cohesion) | IS 2720 (Part-13) |
| 11 | MECHANICAL- SOIL AND ROCK | SOIL | Swelling Pressure | IS 2720 (Part-41) |
| 12 | MECHANICAL- SOIL AND ROCK | SOIL | California Bearing Ratio (CBR) Test | IS 2720 (Part-16) |
| 13 | MECHANICAL- SOIL AND ROCK | SOIL | Consolidated Drained (CD) Triaxial Test (Angle of Friction) | BS EN ISO 17892-9 |
| 14 | MECHANICAL- SOIL AND ROCK | SOIL | Consolidated Drained (CD) Triaxial Test (Cohesion) | BS EN ISO 17892-9 |
| 15 | MECHANICAL- SOIL AND ROCK | SOIL | Consolidation Test | IS 2720 (Part-15) |
| 16 | MECHANICAL- SOIL AND ROCK | SOIL | Direct Shear Test (Angle of Friction) | IS 2720 (Part-13) |
| 17 | MECHANICAL- SOIL AND ROCK | SOIL | Free Swell Index of Soil | IS 2720 (Part-40) |
| 18 | MECHANICAL- SOIL AND ROCK | SOIL | Grain Size Analysis - Sieve Analysis | IS 2720 (Part-4) |

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| 19 | MECHANICAL- SOIL AND ROCK | SOIL | Grain Size Analysis by Hydrometer | IS 2720 (Part-4) |
| 20 | MECHANICAL- SOIL AND ROCK | SOIL | Heavy Compaction (Maximum Dry Density ,MDD) | IS 2720 (Part-8) |
| 21 | MECHANICAL- SOIL AND ROCK | SOIL | Heavy compaction (OMC) | IS 2720 (Part-8) |
| 22 | MECHANICAL- SOIL AND ROCK | SOIL | Light compaction (maximum dry density ,MDD) | IS 2720 (Part-7) |
| 23 | MECHANICAL- SOIL AND ROCK | SOIL | Light compaction (OMC) | IS 2720 (Part-7) |
| 24 | MECHANICAL- SOIL AND ROCK | SOIL | Liquid Limit | IS 2720 (Part-5) |
| 25 | MECHANICAL- SOIL AND ROCK | SOIL | Permeability Test | IS 2720 (Part-17) |
| 26 | MECHANICAL- SOIL AND ROCK | SOIL | Plastic Limit | IS 2720 (Part-5) |
| 27 | MECHANICAL- SOIL AND ROCK | SOIL | Shrinkage Limit | IS 2720 (Part-6) |
| 28 | MECHANICAL- SOIL AND ROCK | SOIL | Specific Gravity | IS 2720 (Part-3/Sec-1) |
| 29 | MECHANICAL- SOIL AND ROCK | SOIL | Triaxial compression - Unconsolidated Undrained (UU) Cohesion | IS 2720 (Part-11) |
| 30 | MECHANICAL- SOIL AND ROCK | SOIL | Tri-axial compression Consolidated Undrained (CU) Cohesion | IS 2720 (Part-12) |
| 31 | MECHANICAL- SOIL AND ROCK | SOIL | Tri-axial compression Consolidated Undrained ,CU (Angle of Friction) | IS 2720 (Part-12) |
| 32 | MECHANICAL- SOIL AND ROCK | SOIL | Triaxial Compression Unconsolidated Undrained UU,(Angle of Friction) | IS 2720 (Part 11) |
| 33 | MECHANICAL- SOIL AND ROCK | SOIL | Unconfined Compression (UC) Strength | IS 2720 (Part-10) |
| 34 | MECHANICAL- SOIL AND ROCK | SOIL | WATER CONTENT | IS 2720 (PART-2) |