# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** GEOTECH TECHNICAL ASSOCIATES (P) LTD., 15, MAHAMANAPURI, I.T.I ROAD BHU, VARANASI, UTTAR PRADESH, INDIA

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

**Certificate Number** TC-4123 **Page No** 1 of 3

**Validity** 11/05/2023 to 10/05/2025 **Last Amended on** -

| 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- BUILDINGS MATERIALS | Autoclaved Cellular (Aerated Concrete block ) | Density | IS 6441 : Part - 1 |
| 2 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Compressive Strength | IS 3495 ( Part - 1 ) |
| 3 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Water Absorption | IS 3495 (Part - 2) |
| 4 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Bricks | Efflorescence | IS 3495 |
| 5 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete flooring Tiles | Wet Transverse Strength | IS 1237 |
| 6 | MECHANICAL- BUILDINGS MATERIALS | Cement Flooring Tiles | Water absorption | IS 1237 |
| 7 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | 10% fine Value | IS: 2386 (Part- 4) |
| 8 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Bulk Density | IS 2386 (Part 3) |
| 9 | MECHANICAL- BUILDINGS MATERIALS | coarse aggregate | crushing value | IS 2386 (Part - 4) |
| 10 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Elongation Index | 2386 (Part - 1) |
| 11 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Flakiness Index | IS 2386 (Part 1) |
| 12 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Impact Value | IS 2386 (Part 4) |
| 13 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Los Angeles Abrasion | IS :2386 (Part - 4) |
| 14 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Specific Gravity | IS 2386 (Part 3) |
| 15 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Water Absorption | IS 2386 (Part 3) |
| 16 | MECHANICAL- BUILDINGS MATERIALS | Concrete Cube | Compressive Strength | IS 516 (Part 1/Sec 1) |
| 17 | MECHANICAL- BUILDINGS MATERIALS | Concrete Paving Block | Compressive Strength | IS 15658 |
| 18 | MECHANICAL- BUILDINGS MATERIALS | Concrete Paving Block | water Absorption | IS 15658 |

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| 19 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Sieve Analysis (10mm to150micron IS sieves) | IS 2386 (Part 1) |
| 20 | MECHANICAL- BUILDINGS MATERIALS | Fresh Concrete | Slump Flow Test | IS 1199 (Part 2) |
| 21 | MECHANICAL- BUILDINGS MATERIALS | OPC 33 ,43,53 and PPC Grade | Normal Consistency | IS 4031 (Part - 4) |
| 22 | MECHANICAL- BUILDINGS MATERIALS | OPC 33,43,53 &PPC | Fineness by dry Sieving | IS 4031 (Part -1) |
| 23 | MECHANICAL- BUILDINGS MATERIALS | OPC 33,43,53 Grade & PPC | Compressive Strength of Hydraulic Cement | IS 4031 : Part 6 |
| 24 | MECHANICAL- BUILDINGS MATERIALS | OPC 33,43,53 grade & PPC | Final Setting Time | IS 4031 : Part - 5 |
| 25 | MECHANICAL- BUILDINGS MATERIALS | OPC 33,43,53 grade & PPC | Soundness by Lechattlier Method | IS 4301 (Part-4) |
| 26 | MECHANICAL- BUILDINGS MATERIALS | OPC 33,43,53 Grade, PPC | Initial Setting Time | IS 4031 : Part 5 |
| 27 | MECHANICAL- BUILDINGS MATERIALS | Precast Paving Blocks | Abrasion Resistance | IS 15658 |
| 28 | MECHANICAL- BUILDINGS MATERIALS | Precasted Autoclaved Cellular ( Aerated Concrete Block ) | Compressive Strength | IS 6441 : Part - 5 |
| 29 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement Steel | % Elogation | IS 1608 : Part 1 |
| 30 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement Steel | Tensile Strength | IS 1608 : Part 1 |
| 31 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement Steel | Yield Stress | IS 1608 : Part 1 |
| 32 | MECHANICAL- SOIL AND ROCK | Rock | Unconfined Compressive Strength | IS 9143 |
| 33 | MECHANICAL- SOIL AND ROCK | Soil | angle of internal friction | IS 2720 (Part - 11) |
| 34 | MECHANICAL- SOIL AND ROCK | Soil | Angle of internal Friction | IS 2720 (Part - 13) |
| 35 | MECHANICAL- SOIL AND ROCK | Soil | California bearing ratio | IS 2720 (Part - 16) |
| 36 | MECHANICAL- SOIL AND ROCK | Soil | Cohesion | IS 2720 (Part - 11) |
| 37 | MECHANICAL- SOIL AND ROCK | Soil | Cohesion | IS 2720 (Part - 13) |

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| 38 | MECHANICAL- SOIL AND ROCK | Soil | Free Swell Index | IS 2720 (Part - 40) |
| 39 | MECHANICAL- SOIL AND ROCK | Soil | Grain Size Analysis | IS 2720 (Part - 4) |
| 40 | MECHANICAL- SOIL AND ROCK | Soil | Heavy compaction Test- Maximum Dry Density | IS 2720 (Part - 8) |
| 41 | MECHANICAL- SOIL AND ROCK | Soil | Heavy Compaction Test- Optimum Moisture Content | IS 2720 (Part - 8) |
| 42 | MECHANICAL- SOIL AND ROCK | Soil | Light Compaction Test- Maximum Dry Density | IS 2720 (Part - 7) |
| 43 | MECHANICAL- SOIL AND ROCK | Soil | Light Compaction Test- Optimum Moisture Content | IS:2720 (Part - 7) |
| 44 | MECHANICAL- SOIL AND ROCK | Soil | Liquid Limit | IS 2720 (Part - 5) |
| 45 | MECHANICAL- SOIL AND ROCK | Soil | Plastic Limit | IS 2720 (Part - 5) |
| 46 | MECHANICAL- SOIL AND ROCK | Soil | Specific Gravity (Fine Grain) | IS 2720 (Part - 3 , Section 1) |
| 47 | MECHANICAL- SOIL AND ROCK | Soil | Water Content | IS 2720 (Part - 2) |