# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** GEO RESEARCH HOUSE, 145, PAHARI TEKRI, RAHUL NAGAR, BICHOLI MARDANA BY PASS ROAD, INDORE, MADHYA PRADESH, INDIA

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

**Certificate Number** TC-10770 **Page No** 1 of 6

**Validity** 01/07/2022 to 30/06/2024 **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 | Bitumen | Absolute Viscosity | IS 1206 (Part 2, Clause 5) |
| 2 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Ductility | IS 1208 (Clause 4) |
| 3 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Fire Point | IS 1209 (Clause 3) |
| 4 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Flash Point | IS 1209 (Clause 3) |
| 5 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Kinematic Viscosity | IS 1206 (Part 3, Clause 6.2) |
| 6 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Penetration | IS 1203 (Clause 4) |
| 7 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Softening Point | IS 1205 (Clause 4) |
| 8 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Specific Gravity | IS 1202 (Clause 3) |
| 9 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mixture | Bitumen Content | IRC SP - 112 |
| 10 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mixture | Marshal Flow | ASTM D6927 |
| 11 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mixture | Marshal Stability | ASTM D6927 |
| 12 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Compressive Strength | IS 3495 (Part 1, Clause 4.1) |
| 13 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Dimension (Height) | IS 1077 (Clause 6) |
| 14 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Dimension (Length) | IS 1077 (Clause 6) |
| 15 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Dimension (Width) | IS 1077 (Clause 6) |
| 16 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Efflorescence | IS 3495 (Part 3, Clause 4) |
| 17 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Water Absorption | IS 3495 (Part 2, Clause 4.1) |
| 18 | MECHANICAL- BUILDINGS MATERIALS | Cement | Compressive Strength (28 Days) | IS 4031 (Part 6, Clause 6) |

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| 19 | MECHANICAL- BUILDINGS MATERIALS | Cement | Compressive Strength (3 Days) | IS 4031 (Part 6, Clause 6) |
| 20 | MECHANICAL- BUILDINGS MATERIALS | Cement | Compressive Strength (7 Days) | IS 4031 (Part 6, Clause 6) |
| 21 | MECHANICAL- BUILDINGS MATERIALS | Cement | Density | IS 4031 (Part 11, Clause 6) |
| 22 | MECHANICAL- BUILDINGS MATERIALS | Cement | Final Setting Time | IS 4031 (Part 5, Clause 5.3) |
| 23 | MECHANICAL- BUILDINGS MATERIALS | Cement | Fineness by Blaine Air Permeability | IS 4031 (Part 2, Clause 5) |
| 24 | MECHANICAL- BUILDINGS MATERIALS | Cement | Initial Setting Time | IS 4031 (Part 5, Clause 5.2) |
| 25 | MECHANICAL- BUILDINGS MATERIALS | Cement | Soundness by Le-Chatelier | IS 4031 (Part 3, Clause 5) |
| 26 | MECHANICAL- BUILDINGS MATERIALS | Cement | Standard Consistency | IS 4031 (Part 4, Clause 5) |
| 27 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Bulk Density (Compacted) | IS 2386 (Part 3, Clause 3.4.2) |
| 28 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Bulk Density (Loose) | IS 2386 (Part 3, Clause 3.4.3) |
| 29 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Crushing value | IS 2386 (Part 4, Clause 2) |
| 30 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Elongation Index | IS 2386 (Part 1, Clause 5) |
| 31 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Flakiness Index | IS 2386 (Part 1, Clause 4) |
| 32 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Gradation (Sieve Size: 4.75 mm to 90 mm) | IS 2386 (Part 1,Clause 2) |
| 33 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Impact Value | IS 2386 (Part 4, Clause 4) |
| 34 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Los Angeles Abrasion Test | IS 2386 (Part 4, Clause 5.3) |
| 35 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Soundness (MgSO4) | IS 2386 (Part 5, Clause 6) |
| 36 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Soundness (Na2SO4) | IS 2386 (Part 5, Clause 6) |
| 37 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Specific Gravity | IS 2386 (Part 3, Clause 2.2) |

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| 38 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Water Absorption | IS 2386 (Part 3, Clause 2.2) |
| 39 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulk Density (Compacted) | IS 2386 (Part 3, Clause 3.4.2) |
| 40 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulk Density (Loose) | IS 2386 (Part 3, Clause 3.4.3) |
| 41 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Gradation (Sieve Size: 75 micron to 10 mm) | IS 2386 (Part 1, Clause 2) |
| 42 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Soundness (MgSO4) | IS 2386 (Part 5, Clause 6) |
| 43 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Soundness (Na2SO4) | IS 2386 (Part 5, Clause 6) |
| 44 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Specific Gravity | IS 2386 (Part 3, Clause 2.4) |
| 45 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Water Absorption | IS 2386 (Part 3, Clause 2.4) |
| 46 | MECHANICAL- BUILDINGS MATERIALS | Fresh Concrete | Compressive Strength of Accelerated Cured Concrete | IS 9013 (Clause 5) |
| 47 | MECHANICAL- BUILDINGS MATERIALS | Fresh Concrete | Slump Test | IS 1199 (Part 1) |
| 48 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete (Core) | Compressive Strength | IS 516 (Part 4) |
| 49 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete (Cube) | Compressive Strength | IS 516 (Part 1, Section 1) |
| 50 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Compressive Strength | IS 15658 |
| 51 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Water Absorption | IS 15658 |
| 52 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement Steel | Bend | IS 1599 |
| 53 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement Steel | Elongation | IS 1608 (Part 1) |
| 54 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement Steel | Nominal Mass | IS 1786 (Clause 6.2) |
| 55 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement Steel | Re-bend | IS 1786 (Clause 9.4) |
| 56 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement Steel | Tensile Strength | IS 1608 (Part 1) |

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| 57 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement Steel | Yield Strength | IS 1608 (Part 1) |
| 58 | MECHANICAL- SOIL AND ROCK | Rock | Density | IS 13030 |
| 59 | MECHANICAL- SOIL AND ROCK | Rock | Porosity | IS 13030 |
| 60 | MECHANICAL- SOIL AND ROCK | Rock | Unconfined Compressive Strength | IS 9143 |
| 61 | MECHANICAL- SOIL AND ROCK | Rock | Water Content | IS 13030 |
| 62 | MECHANICAL- SOIL AND ROCK | Soil | California Bearing Ratio (CBR) | IS 2720 (Part 16) |
| 63 | MECHANICAL- SOIL AND ROCK | Soil | Consolidation (Av) | IS 2720 (Part 15) |
| 64 | MECHANICAL- SOIL AND ROCK | Soil | Consolidation (Cv) | IS 2720 (Part 15) |
| 65 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear Test - Angle of Internal Friction | IS 2720 (Part 13) |
| 66 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear Test - Cohesion | IS 2720 (Part 13) |
| 67 | MECHANICAL- SOIL AND ROCK | Soil | Free Swell Index | IS 2720 (Part 40) |
| 68 | MECHANICAL- SOIL AND ROCK | Soil | Grain Size Analysis (Wet Analysis - 4.75 mm to 0.075 mm) | IS 2720 (Part 4) |
| 69 | MECHANICAL- SOIL AND ROCK | Soil | Heavy Compaction (MDD) | IS 2720 (Part 8) |
| 70 | MECHANICAL- SOIL AND ROCK | Soil | Heavy Compaction (OMC) | IS 2720 (Part 8) |
| 71 | MECHANICAL- SOIL AND ROCK | Soil | Light Compaction (MDD) | IS 2720 (Part 7) |
| 72 | MECHANICAL- SOIL AND ROCK | Soil | Light Compaction (OMC) | IS 2720 (Part 7) |
| 73 | MECHANICAL- SOIL AND ROCK | Soil | Liquid Limit | IS 2720 (Part 5, Clause 6) |
| 74 | MECHANICAL- SOIL AND ROCK | Soil | Plastic Limit | IS 2720 (Part 5, Clause 7) |

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| 75 | MECHANICAL- SOIL AND ROCK | Soil | Shrinkage Limit | IS 2720 (Part 6) |
| 76 | MECHANICAL- SOIL AND ROCK | Soil | Specific Gravity | IS 2720 (Part 3, Section 1) |
| 77 | MECHANICAL- SOIL AND ROCK | Soil | Tri-axial Shear Test (UU) - Angle of Internal Friction | IS 2720 (Part 11) |
| 78 | MECHANICAL- SOIL AND ROCK | Soil | Tri-axial Shear Test (UU) - Cohesion | IS 2720 (Part 11) |
| 79 | MECHANICAL- SOIL AND ROCK | Soil | Unconfined Compressive Strength | IS 2720 (Part 10) |

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| Site Facility | | | | |
| 1 | MECHANICAL- SOIL AND ROCK | Soil (Field) | Field Dry Density by Core Cutter Method | IS 2720 (Part 29) |
| 2 | MECHANICAL- SOIL AND ROCK | Soil (Field) | Field Dry Density by Sand Replacement Method | IS 2720 (Part 28) |
| 3 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Reinforced Concrete Structures | Carbonation Depth | IS 516 (Part 5, Section 3) |
| 4 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Reinforced Concrete Structures | Half Cell Potential Test | ASTM C876 |
| 5 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Reinforced Concrete Structures | Rebound Hammer Test | IS 516 (Part 5, Section 4) |
| 6 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Reinforced Concrete Structures | Ultrasonic Pulse Velocity Test | IS 516 (Part 5, Section 1) |