# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** TESTING LABORATORY, M D SAFETY EQUIPMENTS PRIVATE LIMITED, C-16,17 MIDC HINGNA, NAGPUR, MAHARASHTRA, INDIA

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

**Certificate Number** TC-9905 **Page No** 1 of 6

**Validity** 27/09/2021 to 26/09/2023 **Last Amended on** 23/04/2023

| 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 | Aggregate (Fine) | Water Absorption | IS 2386 (Part 3) |
| 2 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Coarse) | 10% Fines Value | IS 2386 (Part 4) |
| 3 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Coarse) | Bulk Density | IS 2386 (Part 3) |
| 4 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Coarse) | Crushing Value | IS 2386 (Part 4) |
| 5 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Coarse) | Deleterious Materials | IS 2386 (part 1&2) |
| 6 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Coarse) | Elongation Index | IS 2386 (Part -1) |
| 7 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Coarse) | Flakiness Index | IS 2386 (Part 1 |
| 8 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Coarse) | Impact Value | IS 2386 (Part 4) |
| 9 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Coarse) | Los Angeles Abrasion Value | IS 2386 (Part 4) |
| 10 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Coarse) | Sieve Analysis (2.36 mm to 80 mm) | IS 2386 (Part 1) |
| 11 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Coarse) | Specific Gravity | IS 2386 (Part 3) |
| 12 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Coarse) | Water absorption | IS 2386 (Part 3) |
| 13 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Fine) | Bulk Density | IS 2386 (Part 3) |
| 14 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Fine) | Clay lumps | IS 2386 (Part 2) |
| 15 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Fine) | Material finer than 75 micron | IS 2386 (Part 1) |
| 16 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Fine) | Sieve Analysis | IS 2386 (Part 1) |
| 17 | MECHANICAL- BUILDINGS MATERIALS | Aggregates (Fine) | Specific Gravity | IS 2386 (Part 3) |
| 18 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Ductility | IS 1208 |

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| 19 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Flash & Fire Point | IS 1209 |
| 20 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Penetration | IS 1203 |
| 21 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Softening Point | IS 1205 |
| 22 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Specific Gravity | IS 1202 |
| 23 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mix | Binder Content | ASTM D2172 |
| 24 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mix | Marshall Stability | ASTM-D 6927 |
| 25 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Compressive Strength | IS 3495 (Part 1) |
| 26 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Efflorescence | IS 3495 (Part 3) |
| 27 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Water Absorption | IS 3495 (Part 2) |
| 28 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Bricks | Dimension - Width | IS 1077 |
| 29 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Bricks | Dimensions - .Length | IS 1077 |
| 30 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Bricks - Dimension | Height | IS 1077 |
| 31 | MECHANICAL- BUILDINGS MATERIALS | Cement - OPC, PPC | Compressive Strength | IS 4031 (Part 6) |
| 32 | MECHANICAL- BUILDINGS MATERIALS | Cement - OPC, PPC | Consistency | IS 4031 (Part 4) |
| 33 | MECHANICAL- BUILDINGS MATERIALS | Cement - OPC, PPC | Density | IS 4031 (Part 11) |
| 34 | MECHANICAL- BUILDINGS MATERIALS | Cement - OPC, PPC | Final Setting Time | IS 4031 (Part 5) |
| 35 | MECHANICAL- BUILDINGS MATERIALS | Cement - OPC, PPC | Fineness by Blain Air Permeability | IS 4031 (Part 2) |
| 36 | MECHANICAL- BUILDINGS MATERIALS | Cement - OPC, PPC | Initial Setting Time | IS 4031 (Part 5) |
| 37 | MECHANICAL- BUILDINGS MATERIALS | Cement - OPC, PPC | Soundness by Le-Chatelier expansion | IS 4031(Part 3) |

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| 38 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete Tile | Thickness | IS 13801 |
| 39 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete Tile | Water Absorption | IS 13801 |
| 40 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete Tiles | Dimension - Length | IS 13801 |
| 41 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete Tiles | Modulus of Rapture | IS 13630 (Part-6) |
| 42 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete Tiles | Width | IS 13801/ IS 1237 |
| 43 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Dimension | IS 13630 (Part-1) |
| 44 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Modulus of Rapture | IS 13630 (Part-6) |
| 45 | MECHANICAL- BUILDINGS MATERIALS | Concrete Beam | Flexural Strength | IS 516 |
| 46 | MECHANICAL- BUILDINGS MATERIALS | Concrete Cube & Core | Compressive Strength | IS 516 Part 1/Sec I |
| 47 | MECHANICAL- BUILDINGS MATERIALS | Concrete paving blocks | Compressive Strength | IS 15658 |
| 48 | MECHANICAL- BUILDINGS MATERIALS | Fly Ash | Fineness by Blaine's Air Permeability | IS 1727 |
| 49 | MECHANICAL- BUILDINGS MATERIALS | Fly Ash | Residue 45 Micron (Wet Sieving) | IS 1727 |
| 50 | MECHANICAL- BUILDINGS MATERIALS | Fly Ash | Specific Gravity | IS 1727 |
| 51 | MECHANICAL- BUILDINGS MATERIALS | Fresh Concrete | Slump test | IS 1199 |
| 52 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Water absorption | IS 15658 |
| 53 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Dimension - Height | IS 15658 |
| 54 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Dimension - Length | IS 15658 |
| 55 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Dimension - Width | IS 15658 |
| 56 | MECHANICAL- BUILDINGS MATERIALS | Vitrified Tiles | Modulus of Rupture | IS 13630 (Part-6) |

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|---|---|---|---|---|
| 57 | MECHANICAL- BUILDINGS MATERIALS | Vitrified Tiles | Water Absorption | IS 13630 (Part-2) |
| 58 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | HSD Bar, TMT Bar , Angle, Channel, flat | Elongation | IS 1608 (part1) |
| 59 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | HSD Bar, TMT Bar , Angle, Channel, flat | Tensile strength | IS 1608 (part1) |
| 60 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | HSD Bar, TMT Bar , Angle, Channel, flat | Yield stress/0.2% proof, | IS 1608 (part1) |
| 61 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | HSD Bar, TMT Bar, Angle, Channel, flat | Re bend | IS 1786 |
| 62 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | HSD/Angle/ Channel/ Flat | Mass/Unit Length | IS 1732 |
| 63 | MECHANICAL- SOIL AND ROCK | Rock | Moisture Content | IS 13030 |
| 64 | MECHANICAL- SOIL AND ROCK | Rock | Unconfined Compressive Strength | IS 9143 |
| 65 | MECHANICAL- SOIL AND ROCK | Soil | California Bearing Ratio | IS 2720 (Part 16) |
| 66 | MECHANICAL- SOIL AND ROCK | Soil | Moisture Content | IS 2720 (Part 2) |
| 67 | MECHANICAL- SOIL AND ROCK | Soil | Unconfined Compression Test | IS 2720 (Part-10) |
| 68 | MECHANICAL- SOIL AND ROCK | Soil / Morrum | Light Compaction - Maximum Dry Density | IS 2720 (Part 8) |
| 69 | MECHANICAL- SOIL AND ROCK | Soil / Morrum | Light Compaction - Optimum Moisture Content | IS 2720 (Part 8) |
| 70 | MECHANICAL- SOIL AND ROCK | Soil/ Morrum | Specific Gravity | IS 2720 (Part 3) |
| 71 | MECHANICAL- SOIL AND ROCK | Soil/Morrum | Grain Size Analysis (Wet & Dry Analysis) | IS 2720 (Part 4) |
| 72 | MECHANICAL- SOIL AND ROCK | Soil/Murom/ Bentonite | Heavy Compaction - Optimum Moisture Content | IS 2720 (Part 8) |
| 73 | MECHANICAL- SOIL AND ROCK | Soil/Murom/Bentonite | Free Swell Index | IS 2720 (Part 40) |

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| 74 | MECHANICAL- SOIL AND ROCK | Soil/Murom/Bentonite | Heavy Compaction - Maximum Dry Density | IS 2720 (Part 8) |
| 75 | MECHANICAL- SOIL AND ROCK | Soil/Murom/Bentonite | Liquid Limit by Casagrade Apparatus | IS 2720 (Part 5) |
| 76 | MECHANICAL- SOIL AND ROCK | Soil/Murom/Bentonite | Plastic Limit | IS 2720 (Part 5) |
| 77 | MECHANICAL- SOIL AND ROCK | Soil/Murom/Bentonite | Shrinkage Limit | IS 2720 (Part 6) |
| 78 | MECHANICAL- SOIL AND ROCK | Soil/Murom/Bentonite | Water Content by Oven Drying Method | IS 2720 (Part 2) |

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| Site Facility | | | | |
| 1 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Plate Load Test | IS 1888 |
| 2 | MECHANICAL- SOIL AND ROCK | Soil and Rock | Cyclic Plate Load | IS 5249 |
| 3 | MECHANICAL- SOIL AND ROCK | Soil and Rock | Dynamic Cone Penetration Test | IS 4968 (Part-1) |
| 4 | MECHANICAL- SOIL AND ROCK | Soil and Rock | Standard Penetration Test | IS 2131 |
| 5 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Concrete | Rebound Hammer | IS 13311 Part 2 |
| 6 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Concrete | Ultrasonic Pulse Velocity Test | IS 516 Part 5 |