# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** MATERIAL TESTING HOUSE (INDIA) LIMITED, 50-96-4, NORTH EXTENSION, SEETHAMMADHARA, VISAKHAPATNAM, ANDHRA PRADESH, INDIA

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

**Certificate Number** TC-8024 **Page No** 1 of 5

**Validity** 14/11/2021 to 13/11/2023 **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 at 60 DegC | IS 1206 P-2 |
| 2 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Ductility | IS 1208 |
| 3 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Flash point (Cleveland open cup) | IS: 1448 P-69 |
| 4 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Kinematic Viscosity at 135 DegC | IS: 1206 (Part-3) |
| 5 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Penetration | IS 1203 |
| 6 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Softening Point | IS: 1205 |
| 7 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Solubility in trichloroethylene | IS: 1216 |
| 8 | MECHANICAL- BUILDINGS MATERIALS | Bituminous (Asphalt) mix | Bitumen extraction | ASTM-D2172-17el |
| 9 | MECHANICAL- BUILDINGS MATERIALS | Bituminous (Asphalt) mix | Density | ASTM: D1188, ASTM: D2726 |
| 10 | MECHANICAL- BUILDINGS MATERIALS | Bituminous (Asphalt) mix | Flow | ASTM: D6927-15 |
| 11 | MECHANICAL- BUILDINGS MATERIALS | Bituminous (Asphalt) mix | Marshal Stability | ASTM: D6927 |
| 12 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay/Fly ash Bricks | Compressive Strength | IS 3495 P-1 |
| 13 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay/Fly ash Bricks | Dimensions | IS 1077, IS 12894 |
| 14 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay/Fly ash Bricks | Efflorescence | IS 3495 |
| 15 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay/Fly ash Bricks | Water Absorption | IS 3495 P-2 |
| 16 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC, PSC, PPC, CC) | Soundness by b) Autoclave | IS 4031 Part-3 |
| 17 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC, PSC, PPC, CC) | Compressive strength | IS 4031 Part-6 |
| 18 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC, PSC, PPC, CC) | Consistency | IS 4031 P-4 |

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| 19 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC, PSC, PPC, CC) | Final setting | IS 4031 P-5 |
| 20 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC, PSC, PPC, CC) | Fineness by Blaines Air permeability | IS 4031 P-2 |
| 21 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC, PSC, PPC, CC) | Initial setting | IS 4031 P-5 |
| 22 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC, PSC, PPC, CC) | Soundness by a) Le-Chatelier | IS 4031 Part-3 |
| 23 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC, PSC, PPC, CC) | Specific gravity | IS 4031 P-11 |
| 24 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete i) Cubes ii) Cylinders | Compressive strength | IS 516 (Part 1/sec 1) |
| 25 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | 10% fines value | IS 2386 Pt-4, BS: 812 part-111 |
| 26 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Alkali aggregate reactivity | IS 2386 Pt-7 (Mortar Bar method) |
| 27 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Bulk density | IS 2386 Pt-3 |
| 28 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Crushing Value | IS 2386 Pt-4, BS 812-110 |
| 29 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Deleterious materials b) Clay lumps | IS 2386 Pt-2 Cl: 2 |
| 30 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Deleterious materials c) Materials finer than 75 micron IS Sieve | IS 2386 Pt-1 Cl: 3 |
| 31 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Deleterious materials d) Shell content | BS EN 933-7 |
| 32 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Elongation index | IS 2386 Pt-1 |
| 33 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Flakiness Index | 2386 Pt-1 |
| 34 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Impact Value | IS 2386 Pt-4, BS: 812-112 |
| 35 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Los Angeles Abrasion | IS 2386 Pt-4: |
| 36 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Micro-Deval Abrasion | BS EN 1097-1 |

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| 37 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Sieve analysis , sieve size 63mm | IS 2386 Pt-1 |
| 38 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Soundness | IS 2386 Pt-5, BS 812-121 |
| 39 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Specific gravity | IS 2386 Pt-3 |
| 40 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Voids | IS 2386 Pt-3 |
| 41 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Water Absorption | IS 2386 Pt-3 |
| 42 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Deleterious materials a) Coal and lignite | ASTM C123/123M-14 |
| 43 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Stripping value | IS 6241 |
| 44 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggreates | Water Absorption | IS: 2386 (Pt-3) |
| 45 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Deleterious materials a) Coal and lignite | ASTM: C123/123M |
| 46 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Alkali aggregate reactivity | IS 2386 Part 7 (Mortar bar method): BS 812-103 |
| 47 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulk Density | IS: 2386 (Pt-3 |
| 48 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Deleterious materials b) Clay lumps | IS: 2386 (Pt-2), Clause-2 |
| 49 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Deleterious materials c) Materials Finer Than 75 micron IS Sieve | IS: 2386 (Pt-1), Clause-3 |
| 50 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Deleterious materials d) Shale | IS 2386 (part 2), IS 383 |
| 51 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Sieve analysis, sieve size 2.36 mm | IS 2386 P-1 |
| 52 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Soundness | IS: 2386 (Pt-5) BS: 812-121 |
| 53 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Specific gravity | IS: 2386 (Pt-3) |
| 54 | MECHANICAL- BUILDINGS MATERIALS | Fly ash | Specific gravity | IS 1727 |

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| 55 | MECHANICAL- BUILDINGS MATERIALS | Glazed /Ceramic /Vitrified/Granite/Marble tiles | Moh's hardness | IS 13630 P-13 |
| 56 | MECHANICAL- BUILDINGS MATERIALS | Timber /wood | Moisture content | IS 1708 Pt-1 & IS 11215 |
| 57 | MECHANICAL- BUILDINGS MATERIALS | Timber /wood | Specific gravity | IS 1708 Pt-2 |
| 58 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Bars/ round bars Structural steel / pipes | Bend | IS 1599, IS 2329 |
| 59 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Bars/ round bars Structural steel / pipes | Elongation | IS 1608 Part-1 |
| 60 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Bars/ round bars Structural steel / pipes | Mass per meter | IS 1786, IS 2062 |
| 61 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Bars/ round bars Structural steel / pipes | Re bend | IS 1786 |
| 62 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Bars/ round bars Structural steel / pipes | Tensile strength | IS 1608 Part-1 |
| 63 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Bars/ Structural steel / pipes | 0.2 % proof stress | IS 1608 Part-1 |
| 64 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Bars/ Structural steel / pipes | Yield stress | IS 1608 Part 1 |
| 65 | MECHANICAL- SOIL AND ROCK | Rock | Density | Clause A2-6, Appendix 2 of CIRIA SP 83 |
| 66 | MECHANICAL- SOIL AND ROCK | Rock | Point load Index | IS 8764 |
| 67 | MECHANICAL- SOIL AND ROCK | Rock | Unconfined Compressive strength | IS 9143 |
| 68 | MECHANICAL- SOIL AND ROCK | Rock | Water absorption | Clause A2-7, Appendix 2 of CIRIA SP 83 |
| 69 | MECHANICAL- SOIL AND ROCK | Rock | Water content | IS 13030 |
| 70 | MECHANICAL- SOIL AND ROCK | Soil | Atterberg Limits Liquid Limit | IS: 2720 (Pt-5) |

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| 71 | MECHANICAL- SOIL AND ROCK | Soil | Atterberg Limits Plastic Limit | IS 2720 (Part-5) |
| 72 | MECHANICAL- SOIL AND ROCK | Soil | California bearing ratio | IS 2720 (Pt-16) |
| 73 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear | IS: 2720 (Pt-13) |
| 74 | MECHANICAL- SOIL AND ROCK | Soil | Free swell index | IS: 2720 (Pt-40) |
| 75 | MECHANICAL- SOIL AND ROCK | Soil | Grain size analysis hydro meter method | IS 2720 (Pt-4) Clause 5.2 |
| 76 | MECHANICAL- SOIL AND ROCK | Soil | Grain size analysis Sieve analysis | IS 2720 (Pt-4): |
| 77 | MECHANICAL- SOIL AND ROCK | Soil | Heavy compaction | IS 2720 (Pt-8) |
| 78 | MECHANICAL- SOIL AND ROCK | Soil | Light compaction | IS 2720 (Pt-7) |
| 79 | MECHANICAL- SOIL AND ROCK | Soil | Maximum & Minimum Density of cohesion less soils | IS: 2720 (Pt-14) |
| 80 | MECHANICAL- SOIL AND ROCK | Soil | Moisture content | IS 2720 (Part-2) |
| 81 | MECHANICAL- SOIL AND ROCK | Soil | Permeability | IS: 2720 (Pt-17) |
| 82 | MECHANICAL- SOIL AND ROCK | Soil | Specific gravity | IS: 2720 (Pt-3) |
| 83 | MECHANICAL- SOIL AND ROCK | Soil | Swelling pressure | IS 2720 (Pt-41) |
| 84 | MECHANICAL- SOIL AND ROCK | Soil | Triaxial shear (UU) | IS: 2720 (Pt-11) |