# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** RAJLAXMI TEST HOUSE PRIVATE LIMITED, PLOT NO. 267, LALGUTWA NAGRI, RATU, RANCHI, JHARKHAND, INDIA

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

**Certificate Number** TC-11242 **Page No** 1 of 8

**Validity** 28/12/2022 to 27/12/2024 **Last Amended on** -

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|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Ductility (at 25°C) | IS 1208 |
| 2 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Elastic Recovery (at 15°C) | IS 15462 |
| 3 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Fire Point | IS 1209 |
| 4 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Flash Point | IS 1209 |
| 5 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Penetration (at 25 °C, 0.1 mm, 100 g, 5 sec) | IS 1203 |
| 6 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Softening Point | IS 1205 |
| 7 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mix (BM/ BC/ DBM/ DBC) | Binder Content | IRC SP-11 |
| 8 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mix (BM/ BC/ DBM/ DBC) | Density | ASTM D2726 |
| 9 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mix (BM/ BC/ DBM/ DBC) | Flow Value | ASTM D6927 |
| 10 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mix (BM/ BC/ DBM/ DBC) | Impact Value | IS 2386 (Part-4) |
| 11 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mix (BM/ BC/ DBM/ DBC) | Marshall Stability | ASTM D6927 |
| 12 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mix (BM/ BC/ DBM/ DBC) | Stripping Value | IS 6241 |
| 13 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Clay) | Dimension (Height) | IS 1077 |
| 14 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Clay) | Dimension (Length) | IS 1077 |
| 15 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Clay) | Dimension (Width) | IS 1077 |
| 16 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Clay/Fly Ash) | Compressive Strength | IS 3495 (Part-1) |
| 17 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Clay/Fly Ash) | Efflorescence | IS 3495 (Part-3) |
| 18 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Clay/Fly Ash) | Water Absorption | IS 3495 (Part-2) |

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| 19 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Fly Ash) | Dimension (Height) | IS 12894 |
| 20 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Fly Ash) | Dimension (Length) | IS 12894 |
| 21 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Fly Ash) | Dimension (Width) | IS 12894 |
| 22 | MECHANICAL- BUILDINGS MATERIALS | Cement (Ordinary Portland Cement/Portland Pozzolana Cement) | Compressive Strength | IS 4031 (Part-6) |
| 23 | MECHANICAL- BUILDINGS MATERIALS | Cement (Ordinary Portland Cement/Portland Pozzolana Cement) | Consistency | IS 4031 (Part-4) |
| 24 | MECHANICAL- BUILDINGS MATERIALS | Cement (Ordinary Portland Cement/Portland Pozzolana Cement) | Density | IS 4031 (Part-11) |
| 25 | MECHANICAL- BUILDINGS MATERIALS | Cement (Ordinary Portland Cement/Portland Pozzolana Cement) | Final Setting Time | IS 4031 (Part-5) |
| 26 | MECHANICAL- BUILDINGS MATERIALS | Cement (Ordinary Portland Cement/Portland Pozzolana Cement) | Fineness (By Blaine Air Permeability Method) | IS 4031 (Part-2) |
| 27 | MECHANICAL- BUILDINGS MATERIALS | Cement (Ordinary Portland Cement/Portland Pozzolana Cement) | Initial Setting Time | IS 4031 (Part-5) |
| 28 | MECHANICAL- BUILDINGS MATERIALS | Cement (Ordinary Portland Cement/Portland Pozzolana Cement) | Soundness (By Autoclave Expansion) | IS 4031 (Part-3) |
| 29 | MECHANICAL- BUILDINGS MATERIALS | Cement (Ordinary Portland Cement/Portland Pozzolana Cement) | Soundness (By Le-Chatelier's Expansion) | IS 4031 (Part-3) |
| 30 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tile (Glazed / Unglazed / Vitrified) | Breaking Strength | IS 13630 (Part-6) |
| 31 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tile (Glazed / Unglazed / Vitrified) | Dimension (Length) | IS 13630 (Part-1) |
| 32 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tile (Glazed / Unglazed / Vitrified) | Dimension (Thickness) | IS 13630 (Part-1) |
| 33 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tile (Glazed / Unglazed / Vitrified) | Dimension (Width) | IS 13630 (Part-1) |
| 34 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tile (Glazed / Unglazed / Vitrified) | Modulus of Rupture | IS 13630 (Part-6) |
| 35 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tile (Glazed / Unglazed / Vitrified) | Scratch Hardness (Mohs' Scale) | IS 13630 (Part-13) |
| 36 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tile (Glazed / Unglazed / Vitrified) | Water Absorption | IS 13630 (Part-2) |
| 37 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Bulk Density | IS 2386 (Part-3) |

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| 38 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Crushing Value | IS 2386 (Part-4) |
| 39 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Deleterious Material (Clay & Lumps) | IS 2386 (Part-2) |
| 40 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Deleterious Material (Coal & Lignite) | IS 2386 (Part-2) |
| 41 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Deleterious Material (Material finer than 75 µm) | IS 2386 (Part-1) |
| 42 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Elongation Index | IS 2386 (Part-1) |
| 43 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Flakiness Index | IS 2386 (Part-1) |
| 44 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Impact Value | IS 2386 (Part-4) |
| 45 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Los Angeles Abrasion Value | IS 2386 (Part-4) |
| 46 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Sieve Analysis (Sieve Size Range - 90mm to 1.70mm) | IS 2386 (Part-1) |
| 47 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Soundness (By Sodium Sulphate, Na2SO4) | IS 2386 (Part-5) |
| 48 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Specific Gravity | IS 2386 (Part-3) |
| 49 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Ten Percent Fines Value | IS 2386 (Part-4) |
| 50 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Total Deleterious Material | IS 2386 (Part-1 & 2) |
| 51 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Water Absorption | IS 2386 (Part-3) |
| 52 | MECHANICAL- BUILDINGS MATERIALS | Concrete Core | Equivalent Cube Compressive Strength | IS 516 (Part-4) |
| 53 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulk Density | IS 2386 (Part-3) |
| 54 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulking of Sand | IS 2386 (Part-3) |
| 55 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Deleterious Material (Clay & Lumps) | IS 2386 (Part-2) |
| 56 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Deleterious Material (Coal & Lignite) | IS 2386 (Part-2) |

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| 57 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Deleterious Material (Material finer than 75 µm) | IS 2386 (Part-1) |
| 58 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Organic Impurities | IS 2386 (Part-2) |
| 59 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Sieve Analysis (Sieve Size Range - 10mm to 75 micron) | IS 2386 (Part-1) |
| 60 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Soundness (By Sodium Sulphate, Na2SO4) | IS 2386 (Part-5) |
| 61 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Specific Gravity | IS 2386 (Part-3) |
| 62 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Total Deleterious Material | IS 2386 (Part-1 & 2) |
| 63 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Water Absorption | IS 2386 (Part-3) |
| 64 | MECHANICAL- BUILDINGS MATERIALS | Granular Sub Base | Impact Value | IS 2386 (Part-4) |
| 65 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete Cube | Compressive Strength | IS 516 (Part-1, Section-1) |
| 66 | MECHANICAL- BUILDINGS MATERIALS | Precast Concrete Block for Paving (Paver Block/Interlocking Tiles) | Compressive Strength | IS 15658 |
| 67 | MECHANICAL- BUILDINGS MATERIALS | Precast Concrete Block for Paving (Paver Block/Interlocking Tiles) | Dimension (Length) | IS 15658 |
| 68 | MECHANICAL- BUILDINGS MATERIALS | Precast Concrete Block for Paving (Paver Block/Interlocking Tiles) | Dimension (Thickness) | IS 15658 |
| 69 | MECHANICAL- BUILDINGS MATERIALS | Precast Concrete Block for Paving (Paver Block/Interlocking Tiles) | Dimension (Width) | IS 15658 |
| 70 | MECHANICAL- BUILDINGS MATERIALS | Precast Concrete Block for Paving (Paver Block/Interlocking Tiles) | Thickness of Wearing Layer | IS 15658 |
| 71 | MECHANICAL- BUILDINGS MATERIALS | Precast Concrete Block for Paving (Paver Block/Interlocking Tiles) | Water Absorption | IS 15658 |
| 72 | MECHANICAL- BUILDINGS MATERIALS | Stone (Granite/Marble) | Compressive Strength | IS 1121 (Part-1) |
| 73 | MECHANICAL- BUILDINGS MATERIALS | Stone (Granite/Marble) | Durability | IS 1126 |
| 74 | MECHANICAL- BUILDINGS MATERIALS | Stone (Granite/Marble) | Scratch Hardness (Mohs' Scale) | IS 13630 (Part-13) |
| 75 | MECHANICAL- BUILDINGS MATERIALS | Stone (Granite/Marble) | Specific Gravity | IS 1124 |

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| 76 | MECHANICAL- BUILDINGS MATERIALS | Stone (Granite/Marble) | Water Absorption | IS 1124 |
| 77 | MECHANICAL- BUILDINGS MATERIALS | Wet Mix Macadam | Impact Value | IS 2386 (Part-4) |
| 78 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Steel Bars and Wires for Concrete Reinforcement | Bend Test | IS 1599 |
| 79 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Steel Bars and Wires for Concrete Reinforcement | Elongation | IS 1608 (Part-1) |
| 80 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Steel Bars and Wires for Concrete Reinforcement | Mass | RLTHPL-SOPM-03, Issue No. 01, Issue Date: 10/02/2022 |
| 81 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Steel Bars and Wires for Concrete Reinforcement | Rebend Test | IS 1786 |
| 82 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Steel Bars and Wires for Concrete Reinforcement | Tensile Strength | IS 1608 (Part-1) |
| 83 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Steel Bars and Wires for Concrete Reinforcement | Yield Stress | IS 1608 (Part-1) |
| 84 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Structural Steel | Bend Test | IS 1599 |
| 85 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Structural Steel | Elongation | IS 1608 (Part-1) |
| 86 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Structural Steel | Mass | RLTHPL-SOPM-03, Issue No. 01, Issue Date: 10/02/2022 |
| 87 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Structural Steel | Ultimate Tensile Stress | IS 1608 (Part-1) |
| 88 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Structural Steel | Yield Stress | IS 1608 (Part-1) |
| 89 | MECHANICAL- SOIL AND ROCK | Bentonite | Fineness by Dry Sieve (150 micron & 75 micron) | IS 6186 |
| 90 | MECHANICAL- SOIL AND ROCK | Bentonite | Fineness by Wet Sieve (150 micron & 45 micron) | IS 6186 |

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| 91 | MECHANICAL- SOIL AND ROCK | Bentonite | Free Swell Index | IS 2720 (Part-40) |
| 92 | MECHANICAL- SOIL AND ROCK | Bentonite | Liquid Limit | IS 2720 (Part-5) |
| 93 | MECHANICAL- SOIL AND ROCK | Bentonite | Moisture Content | IS 6186 |
| 94 | MECHANICAL- SOIL AND ROCK | Bentonite | Sand Content | IS 6186 |
| 95 | MECHANICAL- SOIL AND ROCK | Granular Sub Base | California Bearing Ratio (CBR Value) | IS 2720 (Part-16) |
| 96 | MECHANICAL- SOIL AND ROCK | Granular Sub Base | Gradation | IS 2386 (Part-1) |
| 97 | MECHANICAL- SOIL AND ROCK | Granular Sub Base | Liquid Limit | IS 2720 (Part-5) |
| 98 | MECHANICAL- SOIL AND ROCK | Granular Sub Base | Maximum Dry Density | IS 2720 (Part-8) |
| 99 | MECHANICAL- SOIL AND ROCK | Granular Sub Base | Optimum Moisture Content | IS 2720 (Part-8) |
| 100 | MECHANICAL- SOIL AND ROCK | Granular Sub Base | Plastic Limit | IS 2720 (Part-5) |
| 101 | MECHANICAL- SOIL AND ROCK | Rock | Compressive Strength | IS 9143 |
| 102 | MECHANICAL- SOIL AND ROCK | Rock | Density | IS 13030 |
| 103 | MECHANICAL- SOIL AND ROCK | Rock | Water Content | IS 13030 |
| 104 | MECHANICAL- SOIL AND ROCK | Soil | California Bearing Ratio (CBR Value - 96 Hours Soaked Condition) | IS 2720 (Part-16) |
| 105 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear Test - Angle of Internal Friction (Phi Value) | IS 2720 (Part-13) |
| 106 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear Test - Cohesion Intercept (C Value) | IS 2720 (Part-13) |
| 107 | MECHANICAL- SOIL AND ROCK | Soil | Free Swell Index | IS 2720 (Part-40) |
| 108 | MECHANICAL- SOIL AND ROCK | Soil | Grain Size Analysis (Sieve Size Range - 19mm to 75 micron) | IS 2720 (Part-4) |

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| 109 | MECHANICAL- SOIL AND ROCK | Soil | Liquid Limit | IS 2720 (Part-5) |
| 110 | MECHANICAL- SOIL AND ROCK | Soil | Maximum Dry Density (MDD) by Heavy Compaction | IS 2720 (Part-8) |
| 111 | MECHANICAL- SOIL AND ROCK | Soil | Moisture Content | IS 2720 (Part-2) |
| 112 | MECHANICAL- SOIL AND ROCK | Soil | Optimum Moisture Content (OMC) by Heavy Compaction | IS 2720 (Part-8) |
| 113 | MECHANICAL- SOIL AND ROCK | Soil | Plastic Limit | IS 2720 (Part-5) |
| 114 | MECHANICAL- SOIL AND ROCK | Soil | Specific Gravity | IS 2720 (Part-3, Section-1) |
| 115 | MECHANICAL- SOIL AND ROCK | Wet Mix Macadam | California Bearing Ratio (CBR Value) | IS 2720 (Part-16) |
| 116 | MECHANICAL- SOIL AND ROCK | Wet Mix Macadam | Gradation | IS 2386 (Part-1) |
| 117 | MECHANICAL- SOIL AND ROCK | Wet Mix Macadam | Liquid Limit | IS 2720 (Part-5) |
| 118 | MECHANICAL- SOIL AND ROCK | Wet Mix Macadam | Maximum Dry Density | IS 2720 (Part-8) |
| 119 | MECHANICAL- SOIL AND ROCK | Wet Mix Macadam | Optimum Moisture Content | IS 2720 (Part-8) |
| 120 | MECHANICAL- SOIL AND ROCK | Wet Mix Macadam | Plastic Limit | IS 2720 (Part-5) |

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| Site Facility | | | | |
| 1 | MECHANICAL- SOIL AND ROCK | Soil | Plate Load Test | IS 1888 |
| 2 | MECHANICAL- SOIL AND ROCK | Soil | Standard Penetration Test (SPT) N Value | IS 2131 |
| 3 | MECHANICAL- SOIL AND ROCK | Soil | Strain Modulus (EV2 Test) | DIN 18134 |
| 4 | MECHANICAL- SOIL AND ROCK | Soil (Field) | Bridge Load Test | IRC SP-51 |
| 5 | MECHANICAL- SOIL AND ROCK | Soil (Field) | Pile Load Test | IS 2911 (Part-4) |