# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** LOTUS CIVIL ENGINEERING LABORATORY & SERVICES, 24-18-58, MENAKA GANDHI STREET, 7TH LINE, ETUKUR ROAD, GUNTUR, ANDHRA PRADESH, INDIA

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

**Certificate Number** TC-9018 **Page No** 1 of 3

**Validity** 28/10/2022 to 27/10/2024 **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 | coarse aggregate | Specific Gravity | IS 2386 (Part 3) |
| 2 | MECHANICAL- BUILDINGS MATERIALS | AAC Blocks | Bulk Density | IS 6441 Part 1 |
| 3 | MECHANICAL- BUILDINGS MATERIALS | AAC Blocks | Compressive Strength | IS 6441 Part 5 |
| 4 | MECHANICAL- BUILDINGS MATERIALS | AAC Blocks | Moisture content | IS:6441 part 1 |
| 5 | MECHANICAL- BUILDINGS MATERIALS | Asphalt | Bitumen Extraction | IRC SP-11 Clause C of Appendice 5 |
| 6 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Penetration | IS 1203 |
| 7 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Softening Point | IS 1205 |
| 8 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Bricks/Fly ash bricks/Fly ash Lime bricks | Compressive Strength | IS 3495 (Part 1) |
| 9 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Bricks/Fly ash Bricks/Fly ash Lime bricks | Water Absorption | IS 3495 (Part 2) |
| 10 | MECHANICAL- BUILDINGS MATERIALS | coarse aggregate | Crushing Value | IS 2386 (Part 4) |
| 11 | MECHANICAL- BUILDINGS MATERIALS | coarse aggregate | Elongation Index | IS 2386 (Part 1) |
| 12 | MECHANICAL- BUILDINGS MATERIALS | coarse aggregate | Water Absorption | IS 2386 (Part 3) |
| 13 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Bulk Density | IS 2386 (Part 3) |
| 14 | MECHANICAL- BUILDINGS MATERIALS | coarse aggregate | flakiness index | IS 2386 (Part 1) |
| 15 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Impact Value | IS 2386 (Part 4) |
| 16 | MECHANICAL- BUILDINGS MATERIALS | coarse aggregate | Sieve analysis 2.36 mm to 80 mm | IS 2386 (Part 1) |
| 17 | MECHANICAL- BUILDINGS MATERIALS | Concrete Core &Cube | Compressive Strength | IS 516 (Part 1 & Section 1) |
| 18 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulk Density | IS 2386 (Part 3) |

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| 19 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Particle finer than 75 microns | IS 2386 (Part 1) |
| 20 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Sieve Analysis 10.mm to 0.075 mm | IS 2386 (Part 1) |
| 21 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Specific Gravity | IS 2386 (Part 3) |
| 22 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Water Absorption | IS 2386 (Part 3) |
| 23 | MECHANICAL- BUILDINGS MATERIALS | OPC & PPC | Compressive Strength | IS 4031 (Part 6) |
| 24 | MECHANICAL- BUILDINGS MATERIALS | OPC & PPC | Final Setting Time | IS 4031 (Part 5) |
| 25 | MECHANICAL- BUILDINGS MATERIALS | OPC & PPC | Fineness by Blaines Air Permeability | IS 4031 (Part 2) |
| 26 | MECHANICAL- BUILDINGS MATERIALS | OPC & PPC | Initial Setting Time | IS 4031 (Part 5) |
| 27 | MECHANICAL- BUILDINGS MATERIALS | OPC & PPC | Soundness by Le-chatelier | IS 4031 (Part 3) |
| 28 | MECHANICAL- BUILDINGS MATERIALS | OPC & PPC | Specific Gravity | IS 4031 (Part 11) |
| 29 | MECHANICAL- BUILDINGS MATERIALS | OPC & PPC | Standard Consistency | IS 4031 (Part 4) |
| 30 | MECHANICAL- BUILDINGS MATERIALS | Solid Concrete Block | Compressive Strength | IS 3495 (Part 1) |
| 31 | MECHANICAL- BUILDINGS MATERIALS | Solid Concrete Block | Water Absorption | IS 3495 (Part 2) |
| 32 | MECHANICAL- SOIL AND ROCK | Rock | Apparent Porsoity | IS 1124 |
| 33 | MECHANICAL- SOIL AND ROCK | Rock | Apparent Specific Gravity | IS 1124 |
| 34 | MECHANICAL- SOIL AND ROCK | Rock | Un confined Compression Strength | IS 9143 |
| 35 | MECHANICAL- SOIL AND ROCK | Rock | Water Absorption | IS 1124 |
| 36 | MECHANICAL- SOIL AND ROCK | Soil | California Bearing Ratio | IS 2720 (Part 16) |
| 37 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear (undrained) Angle of Internal Friction, ø | IS 2720 (Part 13) |

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| 38 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear Test (undrained) Cohesion, C | IS 2720 (Part 13) |
| 39 | MECHANICAL- SOIL AND ROCK | Soil | Free Swell Index | IS 2720 (Part 40) |
| 40 | MECHANICAL- SOIL AND ROCK | Soil | Grain Size Analysis-Wet 4.75 mm to 0.075 mm | IS 2720 (Part 4) |
| 41 | MECHANICAL- SOIL AND ROCK | Soil | Heavy Compaction MDD & OMC | IS 2720 (Part 8) |
| 42 | MECHANICAL- SOIL AND ROCK | Soil | Liquid Limit | IS 2720 (Part 5) |
| 43 | MECHANICAL- SOIL AND ROCK | Soil | Plastic Limit | IS 2720 (Part 5) |