# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** MATERIAL TESTING CELL - V.V.P. ENGINEERING COLLEGE, VIRDA-VAJDI, RAJKOT, GUJARAT, INDIA

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

**Certificate Number** TC-10068 **Page No** 1 of 3

**Validity** 08/11/2021 to 07/11/2023 **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 | Autoclave Aerated Block | Compressive Strength Test | IS 6441 (Part 5) |
| 2 | MECHANICAL- BUILDINGS MATERIALS | Autoclave Aerated Block | Dimension - B | IS 2185 (Part 3) |
| 3 | MECHANICAL- BUILDINGS MATERIALS | Autoclave Aerated Block | Dimension - H | IS 2185 (Part 3) |
| 4 | MECHANICAL- BUILDINGS MATERIALS | Autoclave Aerated Block | Dimension - L | IS 2185 (Part 3) |
| 5 | MECHANICAL- BUILDINGS MATERIALS | Autoclave Aerated Block | Dry Density | IS 6441 (Part 1) |
| 6 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Compressive Strength Test | IS 3495 (Part 1) |
| 7 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Dimension - B | IS 1077 |
| 8 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Dimension - H | IS 1077 |
| 9 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Dimension - L | IS 1077 |
| 10 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Efflorescence | IS 3495 (Part 3) |
| 11 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Water Absorption Test | IS 3495 (Part 2) |
| 12 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Crushing Value Test | IS 2386 (Part 4) |
| 13 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Elongation Index | IS 2386 (Part 4) |
| 14 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Flakiness Index | IS 2386 (Part 4) |
| 15 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Grading- Sieve Analysis (Sieve Size Range: 2.36 mm to 80 mm) | IS 2386 (Part 1) |
| 16 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Impact Value Test | IS 2386 (Part 4) |
| 17 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Specific Gravity | IS 2386 (Part 3) |
| 18 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Water Absorption | IS 2386 (Part 3) |

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| 19 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Grading- Sieve Analysis (Sieve Size Range: 0.150 mm to 10 mm) | IS 2386 (Part 1) |
| 20 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Specific Gravity | IS 2386 (Part 3) |
| 21 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Water Absorption | IS 2386 (Part 3) |
| 22 | MECHANICAL- BUILDINGS MATERIALS | Harden Concrete | Compressive Strength Test | IS 516 (Part 1/ Section 1) |
| 23 | MECHANICAL- BUILDINGS MATERIALS | Ordinary Portland Cement | Compressive Strength Test | IS 4031 (Part 6) |
| 24 | MECHANICAL- BUILDINGS MATERIALS | Ordinary Portland Cemet | Standard Consistency Test | IS 4031 (Part 4) |
| 25 | MECHANICAL- BUILDINGS MATERIALS | Precast Blocks for paving | Compressive Strength Test | IS 15658 |
| 26 | MECHANICAL- BUILDINGS MATERIALS | Precast Blocks for paving | Water Absorption | IS 15658 |
| 27 | MECHANICAL- SOIL AND ROCK | Soils | Direct Shear Test (Angle of Friction) | IS 2720 (Part 13) |
| 28 | MECHANICAL- SOIL AND ROCK | Soils | Direct Shear Test (Cohesion) | IS 2720 (Part 13) |
| 29 | MECHANICAL- SOIL AND ROCK | Soils | Free Swell Index Test | IS 2720 (Part 40) |
| 30 | MECHANICAL- SOIL AND ROCK | Soils | Grain Size Analysis | IS 2720 (Part 4) |
| 31 | MECHANICAL- SOIL AND ROCK | Soils | Heavy Compaction (MDD) | IS 2720 (Part 8) |
| 32 | MECHANICAL- SOIL AND ROCK | Soils | Heavy Compaction (OMC) | IS 2720 (Part 8) |
| 33 | MECHANICAL- SOIL AND ROCK | Soils | Light Compaction (MDD) | IS 2720 (Part 7) |
| 34 | MECHANICAL- SOIL AND ROCK | Soils | Light Compaction (OMC) | IS 2720 (Part 7) |
| 35 | MECHANICAL- SOIL AND ROCK | Soils | Liquid Limit | IS 2720 (Part 5) |
| 36 | MECHANICAL- SOIL AND ROCK | Soils | Moisture Content | IS 2720 (Part 2) |

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| 37 | MECHANICAL- SOIL AND ROCK | Soils | Plastic Limit | IS 2720 (Part 5) |

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