# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** PATNA TESTING AND RESEARCH LABORATORY, KHATA NO. 172, GROUND FLOOR, PLOT NO. 337, 70/ 35 FEET ROAD, DWARIKA PURI, PATNA, BIHAR, INDIA

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

**Certificate Number** TC-11511 **Page No** 1 of 3

**Validity** 28/03/2023 to 27/03/2025 **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 | Burnt Clay Brick | Dimension (Height) | IS 1077 |
| 2 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Brick | Dimension (Width) | IS 1077 |
| 3 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Brick | Dimension (Length) | IS 1077 |
| 4 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Brick | Efflorescence | IS 3495 (Part 3) |
| 5 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Brick | Water Absorption | IS 3495 (Part 2) |
| 6 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Bulk Density | IS 2386 (Part 3) |
| 7 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Crushing Value | IS 2386 (Part 4) |
| 8 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Elongation Index | IS 2386 (Part 1) |
| 9 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Flakiness Index | IS 2386 (Part 1) |
| 10 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Impact Value | IS 2386 (Part 4) |
| 11 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Sieve Analysis (Sieve Size Range - 80mm to 2.36mm) | IS 2386 (Part 1) |
| 12 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Specific Gravity | IS 2386 (Part 3) |
| 13 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Water Absorption | IS 2386 (Part 3) |
| 14 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulk Density | IS 2386 (Part 3) |
| 15 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Organic Impurities | IS 2386 (Part 2) |
| 16 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Sieve Analysis (Sieve Size Range - 10mm to 150micron) | IS 2386 (Part 1) |
| 17 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Specific Gravity | IS 2386 (Part 3) |
| 18 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Water Absorption | IS 2386 (Part 3) |

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|---|---|---|---|---|
| 19 | MECHANICAL- BUILDINGS MATERIALS | Fly Ash Brick | Dimension (Height) | IS 12894 |
| 20 | MECHANICAL- BUILDINGS MATERIALS | Fly Ash Brick | Dimension (Length) | IS 12894 |
| 21 | MECHANICAL- BUILDINGS MATERIALS | Fly Ash Brick | Dimension (Width) | IS 12894 |
| 22 | MECHANICAL- BUILDINGS MATERIALS | Fly Ash Brick | Efflorescence | IS 3495 (Part 3) |
| 23 | MECHANICAL- BUILDINGS MATERIALS | Fly Ash Brick | Water Absorption | IS 3495 (Part 2) |
| 24 | MECHANICAL- BUILDINGS MATERIALS | Ordinary Cement or Blended Cement (Ordinary Portland Cement/ Portland Pozzolana Cement) | Consistency | IS 4031 (Part 4) |
| 25 | MECHANICAL- BUILDINGS MATERIALS | Ordinary Cement or Blended Cement (Ordinary Portland Cement/ Portland Pozzolana Cement) | Setting Time (Final) | IS 4031 (Part 5) |
| 26 | MECHANICAL- BUILDINGS MATERIALS | Ordinary Cement or Blended Cement (Ordinary Portland Cement/ Portland Pozzolana Cement) | Setting Time (Initial) | IS 4031 (Part 5) |
| 27 | MECHANICAL- BUILDINGS MATERIALS | Ordinary Cement or Blended Cement (Ordinary Portland Cement/ Portland Pozzolana Cement) | Soundness (By Le-Chatelier Expansion) | IS 4031 (Part 3) |
| 28 | MECHANICAL- SOIL AND ROCK | Soil | California Bearing Ratio (CBR Value - 96 Hours Soaked Condition) | IS 2720 (Part 16) |
| 29 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear Test - Angle of Internal Friction (Phi Value) | IS 2720 (Part 13) |
| 30 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear Test - Cohesion Intercept (C Value) | IS 2720 (Part 13) |
| 31 | MECHANICAL- SOIL AND ROCK | Soil | Free Swell Index | IS 2720 (Part 40) |
| 32 | MECHANICAL- SOIL AND ROCK | Soil | Grain Size Analysis (Sieve Size - 19mm, 4.75mm, 2.0mm, 425micron, 75micron) | IS 2720 (Part 4) |
| 33 | MECHANICAL- SOIL AND ROCK | Soil | Heavy Compaction (Maximum Dry Density, MDD) | IS 2720 (Part 8) |
| 34 | MECHANICAL- SOIL AND ROCK | Soil | Heavy Compaction (Optimum Moisture Content, OMC) | IS 2720 (Part 8) |
| 35 | MECHANICAL- SOIL AND ROCK | Soil | Liquid Limit | IS 2720 (Part 5) |
| 36 | MECHANICAL- SOIL AND ROCK | Soil | Moisture Content | IS 2720 (Part 2) |

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| 37 | MECHANICAL- SOIL AND ROCK | Soil | Plastic Limit | IS 2720 (Part 5) |
| 38 | MECHANICAL- SOIL AND ROCK | Soil | Specific Gravity | IS 2720 (Part 3, Section 1) |