# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** HPL ENGINEERING SERVICES, SHOP NO. 06, GROUND FLOOR, AMRUT ANGAN, PHASE-1, PARSIK NAGAR, KHAREGAON, KALWA-WEST, THANE, MAHARASHTRA, INDIA

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

**Certificate Number** TC-8341 **Page No** 1 of 4

**Validity** 15/02/2022 to 14/02/2024 **Last Amended on** 26/04/2022

| 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 | CHEMICAL- BUILDING MATERIAL | Admixture /water proofing compounds | Ash Content,( % by mass ) | IS : 9103 |
| 2 | CHEMICAL- BUILDING MATERIAL | Admixture /water proofing compounds | Chloride Content | IS : 6925 |
| 3 | CHEMICAL- BUILDING MATERIAL | Admixture /water proofing compounds | Dry Material Content ,( % by mass ) | IS : 9103 |
| 4 | CHEMICAL- BUILDING MATERIAL | Admixture /water proofing compounds | pH | IS : 9103 |
| 5 | CHEMICAL- BUILDING MATERIAL | Admixture /water proofing compounds | Relative Density | IS : 9103 |
| 6 | CHEMICAL- BUILDING MATERIAL | Admixture /water proofing compounds | Sulphate as SO4 | IS 4032 |
| 7 | CHEMICAL- BUILDING MATERIAL | Building Material (Concrete) | Chloride Content | BS EN 1744 part 1 |
| 8 | CHEMICAL- BUILDING MATERIAL | Building Material (Concrete) | pH Value | IS 2720 part 26 |
| 9 | CHEMICAL- BUILDING MATERIAL | Building Material (Concrete) | Sulphate as SO3 | BS EN 1744-1 |
| 10 | CHEMICAL- BUILDING MATERIAL | Cement (OPC, PPC & PSC) | Loss on Ignition (LOI) | IS 4032 |
| 11 | CHEMICAL- BUILDING MATERIAL | Coarse Aggregate, Fine Aggregate | Chloride | BS EN 1744-1 |
| 12 | CHEMICAL- BUILDING MATERIAL | Coarse Aggregate, Fine Aggregate | pH | IS 2720 Part 26 |
| 13 | CHEMICAL- BUILDING MATERIAL | Coarse Aggregate, Fine Aggregate | Sulphate | BS EN 1744-1 |
| 14 | CHEMICAL- BUILDING MATERIAL | Fly Ash | Loss on Ignition (LOI) | IS 1727 |
| 15 | CHEMICAL- BUILDING MATERIAL | Micro Silica | Moisture | IS 15388 |
| 16 | CHEMICAL- BUILDING MATERIAL | Micro SIlica, Silica Fumes | Loss of Ignition | IS 1727 |
| 17 | CHEMICAL- CORROSION TESTS | Steel | Corrosion resistance | ASTM B117 |
| 18 | CHEMICAL- CORROSION TESTS | Steel | Corrosion resistance | IS 9844 |

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| 19 | CHEMICAL- CORROSION TESTS | Steel | Corrosion resistance | ISO 9227 Method A |
| 20 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks | Compressive Strength | IS 3495( P-1) |
| 21 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks | height | IS 1077 |
| 22 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks | Length | IS 1077 |
| 23 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks | Water Absorption | IS 3495( P-2) |
| 24 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks | Width | IS 1077 |
| 25 | MECHANICAL- BUILDINGS MATERIALS | Cement Testing (OPC/PPC/PSC) | Compressive Strength | IS 4031 (P-6) |
| 26 | MECHANICAL- BUILDINGS MATERIALS | Cement Testing (OPC/PPC/PSC) | Consistency | IS 4031 (P-4) |
| 27 | MECHANICAL- BUILDINGS MATERIALS | Cement Testing (OPC/PPC/PSC) | Density | IS 4031 (P-11) |
| 28 | MECHANICAL- BUILDINGS MATERIALS | Cement Testing (OPC/PPC/PSC) | Final Setting Time | IS 4031 (P-5) |
| 29 | MECHANICAL- BUILDINGS MATERIALS | Cement Testing (OPC/PPC/PSC) | Soundness by Le-Chatelier | IS 4031 ( P-3) |
| 30 | MECHANICAL- BUILDINGS MATERIALS | Cement Testing (OPC/PPC/PSC) | Fineness by air permeability (Blains) | IS 4031 ( P-2) |
| 31 | MECHANICAL- BUILDINGS MATERIALS | Cement Testing (OPC/PPC/PSC) | Initial Setting Time | IS 4031 ( P-5) |
| 32 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | 10% Fine's Value | IS 2386 (Part 4) |
| 33 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Falkiness Index | IS 2386 (Part 1) |
| 34 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Specific Gravity | IS 2386 (Part 3) |
| 35 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Water Absorption | IS 2386 (Part 3) |
| 36 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Clay Lumps, Finer Than 75µ Sieve, Coal and Lignite, Soft Fragments | IS 2386 ( P-1) |

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**Certificate Number** TC-8341 **Page No** 3 of 4

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| 37 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Elongation Index | IS 2386 (Part-1) |
| 38 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Impact Value | IS 2386 (Part -4) |
| 39 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Silt content | IS 2386 (Part-2) |
| 40 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Soundness (Na2So4 & MgSo4) | IS 2386 (Part-5) |
| 41 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Unit Weight (Bulk Density) | IS 2386 (Part -3) |
| 42 | MECHANICAL- BUILDINGS MATERIALS | CoarseAggregate | Aggregate Crushing Value | IS 2386 (Part 4) |
| 43 | MECHANICAL- BUILDINGS MATERIALS | Course aggregate | Sieve Analysis (2.36 mm to 40 mm) | IS 2386 (Part-1) |
| 44 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Sieve Analysis (150 micron to 10 mm) | IS 2386 (Part-1) |
| 45 | MECHANICAL- BUILDINGS MATERIALS | fine aggregate | Soundness (Na2So4 & MgSo4) | IS 2386 (Part-5) |
| 46 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Unit Weight (Bulk Density) | IS 2386 (Part-3) |
| 47 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Clay Lumps Finer Than 75µ Sieve Coal and Lignite, Shale | IS 2386 (Part-1) |
| 48 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Organic Impurities in Fine Aggregates | IS 2386 (Part-2) |
| 49 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Silt content | IS 2386 (Part-2) |
| 50 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Specific Gravity | IS 2386 (Part -3) |
| 51 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Water Absorption | IS 2386 (Part-3) |
| 52 | MECHANICAL- BUILDINGS MATERIALS | Fly ash | Lime Reactivity | IS 1727 |
| 53 | MECHANICAL- BUILDINGS MATERIALS | Fly ash | Compressive strength | IS 1727 |
| 54 | MECHANICAL- BUILDINGS MATERIALS | Fly Ash | Fineness by Blaine Air Permeability Method | IS 1727 |
| 55 | MECHANICAL- BUILDINGS MATERIALS | Fly Ash | Particles retained on 45 µ sieve by wet seiving. | IS 1727 |

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| 56 | MECHANICAL- BUILDINGS MATERIALS | Fly Ash | Specific Gravity | IS 1727 |
| 57 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete | Density | IS 516 (Part 2/ Sec 1) |
| 58 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete | Compressive strength | IS 516 (Part 1/ Sec 1) |
| 59 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete | Flexural Strength | IS 516 (Part 1/ Sec 1) |
| 60 | MECHANICAL- BUILDINGS MATERIALS | Refractory Casted Bricks / Blocks | Abrasion Resistance Test | API 936 |
| 61 | MECHANICAL- BUILDINGS MATERIALS | Refractory Casted Bricks / Blocks | Abrasion Resistance Test | ASTM C704/C704M-15 |
| 62 | MECHANICAL- BUILDINGS MATERIALS | Refractory Casted Bricks / Blocks | Bulk Density | API 936 |
| 63 | MECHANICAL- BUILDINGS MATERIALS | Refractory Casted Bricks / Blocks | Bulk Density | ASTM C 134-95 |
| 64 | MECHANICAL- BUILDINGS MATERIALS | Refractory Casted Bricks / Blocks | Bulk Density | IS 1528 (Part-12) |
| 65 | MECHANICAL- BUILDINGS MATERIALS | Refractory Casted Bricks / Blocks | Cold Crushing Strength (CCS) | IS 1528 (Part-4) |
| 66 | MECHANICAL- BUILDINGS MATERIALS | Refractory Casted Bricks / Blocks | Permanent Linear Changes (PLC) | API 936 |
| 67 | MECHANICAL- BUILDINGS MATERIALS | Refractory Casted Bricks / Blocks | Permenant Linear Changes | ASTM C 113-14 |
| 68 | MECHANICAL- BUILDINGS MATERIALS | Refractory Casted Bricks / Blocks | Permenant Linear Changes | IS 1528 (Part-6) |
| 69 | MECHANICAL- BUILDINGS MATERIALS | Refractory Casted Bricks / Blocks | Thermal Conductivity | ASTM C 182-19 |
| 70 | MECHANICAL- BUILDINGS MATERIALS | Wood Particle board | Density | IS 2380 (Part-3) |
| 71 | MECHANICAL- BUILDINGS MATERIALS | Wood Particle board | Moisture Content | IS 2380 (Part-3) |
| 72 | MECHANICAL- BUILDINGS MATERIALS | Wood Particle board | Water Absorption (2 and 24 Hours) | IS 2380 (Part-16) |