# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** LABORATORY FOR ENVIRONMENTAL AND CIVIL TESTING & RESEARCH CENTRE, PACIFIC SCHOOL OF ENGINEERING, PALSANA ROAD HIGHWAY (NH-8), SANKI, TAL. PALSANA, SURAT, GUJARAT, INDIA

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

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**Validity** 20/04/2022 to 19/04/2024 **Last Amended on** -

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|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | Oxides of Nitrogen (NOx) | IS 5182 (Part 06) |
| 2 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | PM 2.5 | IS 5182 (P-24) |
| 3 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient air | Respirable Suspended Particular Matter (RSPM-PM10) | IS 5182 (Part 23) |
| 4 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | Sulphur Dioxide (SOx) | IS 5182 (Part 02) |
| 5 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack Emissions | Oxides of Nitrogen (NOx) | IS 11255 (Part 7) |
| 6 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack Emissions | Particulate Matter (PM) | IS 11255 (Part 1) |
| 7 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack Emissions | Sulphur Dioxide (SO2) | IS 11255 (Part 2) |
| 8 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Ammonical Nitrogen | APHA (23rd Edition) 4500, NH3 B,C |
| 9 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Biochemical Oxygen Demand (BOD) | IS 3025 (Part 44) |
| 10 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Chemical Oxygen Demand (COD) | APHA (23rd Edition) 5220 B |
| 11 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Chloride | IS 3025 (Part 32) |
| 12 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Chromium (as Cr+6) | APHA (23rd Edition) 3030 E, 3500 Cr B |
| 13 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Colour | APHA (23rd Edition) 2120, Color B |
| 14 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/sewage) | Dissolved Oxygen (DO) | IS 3025 (Part 38) |
| 15 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Iron (Fe) | APHA (23rd Edition) 3500 Fe B |
| 16 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Nitrate Nitrogen | APHA (23rd Edition) 4500 NO3 B |
| 17 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Nitrite Nitrogen | APHA (23rd Edition) 4500 NO2 B |
| 18 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Oil and Grease | IS 3025 (Part 39) |

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| 19 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | pH | IS 3025 (Part 11) |
| 20 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Sulphate | APHA (23rd Edition) 4500 $SO4^2$ E |
| 21 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Temperature | IS 3025 (Part 09) |
| 22 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Total Dissolved Solids | IS 3025 (Part 16) |
| 23 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Total Solids | IS 3025 (Part 15) |
| 24 | CHEMICAL- POLLUTION & ENVIRONMENT | Wastewater (Effluents/Sewage) | Total Suspended Solids | IS 3025 (Part 17) |
| 25 | CHEMICAL- WATER | Drinking Water | Chloride | IS 3025 (Part 32) |
| 26 | CHEMICAL- WATER | Drinking Water | Colour | APHA (23rd Edition) 2120, Color B |
| 27 | CHEMICAL- WATER | Drinking Water | Nitrate Nitrogen | APHA (23rd Edition) 4500 NO3 B |
| 28 | CHEMICAL- WATER | Drinking Water | pH | IS 3025 (Part 11) |
| 29 | CHEMICAL- WATER | Drinking Water | Total Dissolved Solids | IS 3025 (Part 16) |
| 30 | CHEMICAL- WATER | Drinking Water | Total Hardness | IS 3025 (Part 21) |
| 31 | CHEMICAL- WATER | Ground Water | Chloride | IS 3025 (Part 32) |
| 32 | CHEMICAL- WATER | Ground Water | Colour | APHA (23rd Edition) 2120, Color B |
| 33 | CHEMICAL- WATER | Ground Water | Nitrate Nitrogen | APHA (23rd Edition) 4500 NO3 B |
| 34 | CHEMICAL- WATER | Ground Water | pH | IS 3025 (Part 11) |
| 35 | CHEMICAL- WATER | Ground Water | Total Dissolved Solids | IS 3025 (Part 16) |
| 36 | CHEMICAL- WATER | Ground Water | Total Hardness | IS 3025 (Part 21) |
| 37 | CHEMICAL- WATER | Industrial Water | Chloride | IS 3025 (Part 32) |
| 38 | CHEMICAL- WATER | Industrial Water | Colour | APHA (23rd Edition) 2120, Color B |
| 39 | CHEMICAL- WATER | Industrial Water | Nitrate Nitrogen | APHA (23rd Edition) 4500 NO3 B |
| 40 | CHEMICAL- WATER | Industrial Water | pH | IS 3025 (Part 11) |
| 41 | CHEMICAL- WATER | Industrial Water | Sulphate | APHA (23rd Edition) 4500 $SO4^2$ E |

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|---|---|---|---|---|
| 42 | CHEMICAL- WATER | Industrial Water | Total Dissolved Solids | IS 3025 (Part 16) |
| 43 | CHEMICAL- WATER | Industrial Water | Total Hardness | IS 3025 (Part 21) |
| 44 | CHEMICAL- WATER | Industrial Water | Total Solids | IS 3025 (Part 15) |
| 45 | CHEMICAL- WATER | Packaged Drinking Water | Chloride | IS 3025 (Part 32) |
| 46 | CHEMICAL- WATER | Packaged Drinking Water | . Sulphate | APHA (23rd Edition) 4500 $SO4^2$ E |
| 47 | CHEMICAL- WATER | Packaged Drinking Water | Colour | APHA (23rd Edition) 2120, Color B |
| 48 | CHEMICAL- WATER | Packaged Drinking Water | Nitrate Nitrogen | APHA (23rd Edition) 4500 NO3 B |
| 49 | CHEMICAL- WATER | Packaged Drinking Water | Nitrite Nitrogen | APHA (23rd Edition) 4500 NO2 B |
| 50 | CHEMICAL- WATER | Packaged Drinking Water | pH | IS 3025 (Part 11) |
| 51 | CHEMICAL- WATER | Packaged Drinking Water | Total Dissolved Solids | IS 3025 (Part 16) |
| 52 | CHEMICAL- WATER | Surface water | Dissolved Oxygen (DO) | IS 3025 (Part 38) |
| 53 | CHEMICAL- WATER | Surface water | Biochemical Oxygen Demand (BOD) | IS 3025 (Part 44) |
| 54 | CHEMICAL- WATER | Surface Water | Chemical Oxygen Demand (COD) | APHA (23rd Edition) 5220 B |
| 55 | CHEMICAL- WATER | Surface Water | Chloride | IS 3025 (Part 32) |
| 56 | CHEMICAL- WATER | Surface Water | Colour | APHA (23rd Edition) 2120 Color B |
| 57 | CHEMICAL- WATER | Surface water | Nitrate Nitrogen | APHA (23rd Edition) 4500 NO3 B |
| 58 | CHEMICAL- WATER | Surface Water | Oil and Grease | IS 3025 (Part 39) |
| 59 | CHEMICAL- WATER | Surface Water | pH | IS 3025 (Part 11) |
| 60 | CHEMICAL- WATER | Surface Water | Sulphate | APHA (23rd Edition) 4500 $SO4^{2-}$ E |
| 61 | CHEMICAL- WATER | Surface Water | Total Dissolved Solids | IS 3025 (Part 16) |
| 62 | CHEMICAL- WATER | Water for construction purpose | Chloride | IS 3025 (Part 32) |
| 63 | CHEMICAL- WATER | Water for construction purpose | pH | IS 3025 (Part 11) |
| 64 | CHEMICAL- WATER | Water for construction purpose | Sulphate | APHA (23rd Edition) 4500 $SO4^2$ E |
| 65 | CHEMICAL- WATER | Water for construction purpose | Total Dissolved Solids | IS 3025 (Part 16) |

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|---|---|---|---|---|
| 66 | CHEMICAL- WATER | Water for construction purpose | Total Solids | IS 3025 (Part 15) |
| 67 | CHEMICAL- WATER | Water for construction purpose | Total Suspended Solids | IS 3025 (Part 17) |
| 68 | CHEMICAL- WATER | Water for Swimming Pool | Chloride | IS 3025 (Part 32) |
| 69 | CHEMICAL- WATER | Water for Swimming Pool | Colour | APHA (23rd Edition) 2120 Color B |
| 70 | CHEMICAL- WATER | Water for Swimming Pool | pH | IS 3025 (Part 11) |
| 71 | CHEMICAL- WATER | Water for Swimming Pool | Total Dissolved Solids | IS 3025 (Part 16) |
| 72 | CHEMICAL- WATER | Water from Water Purifiers | Colour | APHA (23rd Edition) 2120, Color B |
| 73 | CHEMICAL- WATER | Water from Water Purifiers | Chloride | IS 3025 (Part 32) |
| 74 | CHEMICAL- WATER | Water from Water Purifiers | Nitrate Nitrogen | APHA (23rd Edition) 4500 NO3 B |
| 75 | CHEMICAL- WATER | Water from Water Purifiers | pH | IS 3025 (Part 11) |
| 76 | CHEMICAL- WATER | Water from Water Purifiers | Total Dissolved Solids | IS 3025 (Part 16) |
| 77 | CHEMICAL- WATER | Water from Water Purifiers | Total Hardness | IS 3025 (Part 21) |
| 78 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Absolute viscosity | IS 1206 (Part-2) |
| 79 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Ductility | IS 1208 |
| 80 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Kinematic viscosity | IS 1206 (Part-3) |
| 81 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Penetration | IS 1203 |
| 82 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Softening Point | IS 1205 |
| 83 | MECHANICAL- BUILDINGS MATERIALS | Bitumen | Specific Gravity | IS 1202 |
| 84 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mix | Marshall Flow | ASTM D6927 |
| 85 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Mix | Marshall Stability | ASTM D6927 |
| 86 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Burnt Clay / Burnt Clay Fly Ash) | Compressive Strength | IS 3495 (Part 1) |
| 87 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Burnt Clay / Burnt Clay Fly Ash) | Efflorescence | IS 3495 (Part 3) |

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|---|---|---|---|---|
| 88 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Burnt Clay / Burnt Clay Fly Ash) | Water Absorption | IS 3495 (Part 2) |
| 89 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Burnt Clay Fly Ash) | Dimensions - Height | IS 13757 |
| 90 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Burnt Clay Fly Ash) | Dimensions - Length | IS 13757 |
| 91 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Burnt Clay Fly Ash) | Dimensions - Width | IS 13757 |
| 92 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Burnt Clay) | Dimensions - Height | IS 1077 |
| 93 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Burnt Clay) | Dimensions - Length | IS 1077 |
| 94 | MECHANICAL- BUILDINGS MATERIALS | Bricks (Burnt Clay) | Dimensions - Width | IS 1077 |
| 95 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC / PPC) | Blaine Air Permeability | IS 4031 (PART-2) |
| 96 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC / PPC) | Compressive Strength (72 Hours to 672 Hours) | IS 4031 (Part 6) |
| 97 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC / PPC) | Final Setting Time | IS 4031 (Part 5) |
| 98 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC / PPC) | Initial Setting Time | IS 4031 (Part 5) |
| 99 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC / PPC) | Soundness by Le-Chatelier Method | IS 4031 (Part 3) |
| 100 | MECHANICAL- BUILDINGS MATERIALS | Cement (OPC / PPC) | Standard Consistency | IS 4031 (Part 4) |
| 101 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | 10% Fine Value | IS 2386 (Part-4) |
| 102 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Abrasion Value - Los Angeles | IS 2386 (Part 4) |
| 103 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Bulk Density | IS 2386 (Part 3) |
| 104 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Crushing Value | IS 2386 (Part 4) |
| 105 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Elongation Index | IS 2386 (Part 1) |
| 106 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Flakiness Index | IS 2386 (Part 1) |

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| 107 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Impact Value | IS 2386 (Part 4) |
| 108 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Sieve Analysis (4.75 mm to 80 mm) | IS 2386 (Part 1) |
| 109 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Specific Gravity | IS 2386 (Part 3) |
| 110 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Water Absorption | IS 2386 (Part 3) |
| 111 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulk Density | IS 2386 (Part 3) |
| 112 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Materials Finer than 75-micron | IS 2386 (Part 1) |
| 113 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Sieve Analysis (75 µm to 10 mm) | IS 2386 (Part 1) |
| 114 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Specific Gravity | IS 2386 (Part 3) |
| 115 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Water Absorption | IS 2386 (Part 3) |
| 116 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete | Compressive Strength - Cube (7 days to 28 days) | IS 516 |
| 117 | MECHANICAL- BUILDINGS MATERIALS | Precast Concrete Paving Block | Compressive Strength | IS 15658 |
| 118 | MECHANICAL- BUILDINGS MATERIALS | Precast Concrete Paving Block | Water Absorption | IS 15658 |
| 119 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Steel Bars for Concrete Reinforcement (upto 32 mm) | Elongation | IS 1608 (Part 1) |
| 120 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Steel Bars for Concrete Reinforcement (upto 32 mm) | Mass per Meter | IS 1786 |
| 121 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Steel Bars for Concrete Reinforcement (upto 32 mm) | Tensile Strength | IS 1608 (Part 1) |
| 122 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength Deformed Steel Bars for Concrete Reinforcement (upto 32 mm) | Yield Stress by Offset Method | IS 1608 (Part 1) |
| 123 | MECHANICAL- SOIL AND ROCK | Soil | Direct shear test - Angle of Internal Friction | IS 2720 (Part-13) |

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| 124 | MECHANICAL- SOIL AND ROCK | Soil | Direct shear test - Cohesion | IS 2720 (Part-13) |
| 125 | MECHANICAL- SOIL AND ROCK | Soil | Free Swell Index | IS 2720 (Part 40) |
| 126 | MECHANICAL- SOIL AND ROCK | Soil | Grain Size Analysis (75 µm to 4.75 mm) | IS 2720 (Part 4) |
| 127 | MECHANICAL- SOIL AND ROCK | Soil | Heavy Compaction - Maximum Dry Density | IS 2720 (Part 8) |
| 128 | MECHANICAL- SOIL AND ROCK | Soil | Heavy Compaction - Optimum Moisture Content | IS 2720 (Part 8) |
| 129 | MECHANICAL- SOIL AND ROCK | Soil | Light Compaction - Maximum Dry Density | IS 2720 (Part 7) |
| 130 | MECHANICAL- SOIL AND ROCK | Soil | Light Compaction - Optimum Moisture Content | IS 2720 (Part 7) |
| 131 | MECHANICAL- SOIL AND ROCK | Soil | Liquid Limit by Cone Penetrometer | IS 2720 (Part 5) |
| 132 | MECHANICAL- SOIL AND ROCK | Soil | Plastic Limit | IS 2720 (Part 5) |
| 133 | MECHANICAL- SOIL AND ROCK | Soil | specific gravity | IS 2720 (PART-3, SEC-2) |
| 134 | MECHANICAL- SOIL AND ROCK | Soil | Water Content by Oven Drying | IS 2720 (Part 2) |

NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.