# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** CENTRAL LABORATORY, STATE POLLUTION CONTROL BOARD, PLOT NO. B-59/2 & 59/3, CHANDAKA INDUSTRIAL ESTATE, PATIA, BHUBANESWAR, KHORDHA, ODISHA, INDIA

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

**Certificate Number** TC-9245 **Page No** 1 of 9

**Validity** 01/02/2021 to 31/01/2023 **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 | BIOLOGICAL- ENVIRONMENT AND POLLUTION | Effluents/ Waste water | Faecal Coliforms | APHA, 9221 E Thermotolerant (Faecal) Coliform Procedure, 23rd Edition |
| 2 | BIOLOGICAL- ENVIRONMENT AND POLLUTION | Effluents/ Waste water | Total coliforms | APHA, 9221 B Standard Total Coliform Fermentation Technique 23rd Edition |
| 3 | BIOLOGICAL- WATER | Ground water/ surface water | Fecal Coliforms | APHA, 9221 E Thermotolerant (Faecal) Coliform Procedure, 23rd Edition |
| 4 | BIOLOGICAL- WATER | Ground Water/ Surface Water | Total Coliforms | APHA, 9221 B Standard Total Coliform Fermentation Technique 23rd Edition |
| 5 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | Ammonia | IS 5182 Methods of Measurement of Air Pollution Part 25 Ammonia |
| 6 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient air | Lead | National Ambient Air Quality Series NAAQMS/36/2012-13 Guidelines for Sampling and analysis of Lead, Nickel and Arsenic in ambient air (Atomic Absorption Spectrophotometer method) |
| 7 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | Nitrogen dioxide as NO2 | IS : 5182 Methods for measuremnet of Air Pollution (Part-6) Nitrogen Oxides |
| 8 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | Ozone | IS : 5182 Methods for measurement of Air pollution (Part-9) Oxidants |
| 9 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient air | PM2.5 | National Ambient Air Quality Series NAAQMS/36/2012-13 Guidelines for determination of PM2.5 in ambient air (Gravimetric method) |
| 10 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | Respirable suspended particulate matter (PM10) | IS : 5182 Methods for measurement of Air Pollution Part 23 Respirable Suspended Particulate Matter (PM10) Cyclonic Flow technique |
| 11 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient air | Sulphur dioxide (SO2) | IS : 5182 Methods for measurement of air pollution (Part-2) Sulpher Dioxide (1st Revision) |

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| 12 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Noise level | Ambient Noise level | IS : 9989 Assessment of noise with respect to community response |
| 13 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Alakalinity | APHA 2320 B Titration Method 23rd Edition |
| 14 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Ammonical Nitrogen | APHA 4500-NH3 B Preliminary Distillation step followed by 4500-NH3-C Titrimetric method 23rd Edition |
| 15 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Biochemical Oxygen Demand | IS 3025 Methods of Sampling and Test (Physical and Chemical) for Water and Wastewater) Part 44 Biochemical Oxygen Demand |
| 16 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Calcium Hardness | APHA, 3500-Ca B EDTA Titrimetric method 23rd Edition |
| 17 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Chemical Oxygen Demand | APHA, 5220 B Open Reflux Method 23rd Edition |
| 18 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Chloride | APHA, 4500-Cl B Argentometric method 23rd Edition |
| 19 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Conductivity | APHA, 2510 B Laboratory method 23rd Edition |
| 20 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Dissolved Oxygen | APHA, 4500-O C Azide Modification method 23rd Edition |
| 21 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Fluoride | APHA, 4500-F C Ion-Selective Electrode method 23rd Edition |
| 22 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Magnesium Hardness | APHA, 3500-Mg B Calculation method 23rd Edition |
| 23 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Nitrate Nitrogen | APHA, 4500-NO3 E Cadmium Reduction Method 23rd Edition |
| 24 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Ortho phosphate | APHA, 4500-P D Stannous Chloride method 23rd Edition |
| 25 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste Water | pH | APHA, 4500-H+ B Electrometric method 23rd Edition |
| 26 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Potassium | APHA, 3500-K B Flame photometric method 23rd Edition |

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| 27 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Sodium | APHA, 3500-Na B Flame emission photometric method 23rd Edition |
| 28 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Sulphate | APHA, 4500 SO4 E Turbidimetric method 23rd Edition |
| 29 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Temperature | APHA, 2550 B Laboratory and Field Method 23rd Edition |
| 30 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Total Dissolved Solids | APHA, 2540 C Total Dissolved Solids dried at 180C 23rd Edition |
| 31 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Total Fixed solids | APHA, 2540 E Fixed and Volatile Solids ignited at 550C 23rd Edition |
| 32 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Total Hardness | APHA, 2340 Hardness C EDTA Titrimetric method 23rd Edition |
| 33 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Total Kjeldahl Nitrogen | APHA, 4500-Norg B Macro Kjeldahl method 23rd Edition |
| 34 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Total Phosphate | APHA, 4500-P B Sample Preparation followed by 4500-P D Stannous chloride method 23rd Edition |
| 35 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Total Solids | APHA, 2540 B Total solids dried at 103-105C 23rd Edition |
| 36 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Total suspended solids | APHA, 2540 D Total suspended solids dried at 103-105C 23rd Edition |
| 37 | CHEMICAL- POLLUTION & ENVIRONMENT | Waste water | Turbidity | APHA, 2130 B Nephelometric Method 23rd Edition |
| 38 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Aldrin | USEPA 508 DETERMINATION OF CHLORINATED PESTICIDES IN WATER BY GAS CHROMATOGRAPHY WITH AN ELECTRON CAPTURE DETECTOR Rev, 3.1 |
| 39 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Alpha Endosulfan | USEPA 508 DETERMINATION OF CHLORINATED PESTICIDES IN WATER BY GAS CHROMATOGRAPHY WITH AN ELECTRON CAPTURE DETECTOR Rev, 3.1 |

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| 40 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Alpha-BHC | USEPA 508 DETERMINATION OF CHLORINATED PESTICIDES IN WATER BY GAS CHROMATOGRAPHY WITH AN ELECTRON CAPTURE DETECTOR Rev, 3.1 |
| 41 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Beta Endosulfan | USEPA 508 DETERMINATION OF CHLORINATED PESTICIDES IN WATER BY GAS CHROMATOGRAPHY WITH AN ELECTRON CAPTURE DETECTOR Rev, 3.1 |
| 42 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Cadmium | APHA,3111 A Metals by Flame Atomic Absorption Spectrometry, 23rd Edition |
| 43 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Chloropyriphos | USEPA 508 DETERMINATION OF CHLORINATED PESTICIDES IN WATER BY GAS CHROMATOGRAPHY WITH AN ELECTRON CAPTURE DETECTOR Rev, 3.1 |
| 44 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Chromium (Hexavalent) | APHA,3500-Cr-B Colorimetric Method, 23rd Edition |
| 45 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Cobalt | APHA, 3111 A Metals by Flame Atomic Absorption Spectrometry, 23rd Edition |
| 46 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Copper | APHA, 3111 A Metals by Flame Atomic Absorption Spectrometry, 23rd Edition |
| 47 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Dieldrin | USEPA 508 DETERMINATION OF CHLORINATED PESTICIDES IN WATER BY GAS CHROMATOGRAPHY WITH AN ELECTRON CAPTURE DETECTOR Rev, 3.1 |
| 48 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Gamma BHC (Lindane) | USEPA 508 DETERMINATION OF CHLORINATED PESTICIDES IN WATER BY GAS CHROMATOGRAPHY WITH AN ELECTRON CAPTURE DETECTOR Rev, 3.1 |
| 49 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Iron | APHA, 3111 A Metals by Flame Atomic Absorption Spectrometry, 23rd Edition |

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| 50 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Iron | APHA, 3500-Fe B Phenanthroline Method, 23rd Edition |
| 51 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Lead | APHA, 3111 A Metals by Flame Atomic Absorption Spectrometry, 23rd Edition |
| 52 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Nickel | APHA, 3111 A Metals by Flame Atomic Absorption Spectrometry, 23rd Edition |
| 53 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | O P DDT | USEPA 508 DETERMINATION OF CHLORINATED PESTICIDES IN WATER BY GAS CHROMATOGRAPHY WITH AN ELECTRON CAPTURE DETECTOR Rev, 3.1 |
| 54 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | P P DDT | USEPA 508 DETERMINATION OF CHLORINATED PESTICIDES IN WATER BY GAS CHROMATOGRAPHY WITH AN ELECTRON CAPTURE DETECTOR Rev, 3.1 |
| 55 | CHEMICAL- RESIDUES IN WATER | Surface water/ Groundwater/ Wastewater | Zinc | APHA, 3111 A Metals by Flame Atomic Absorption Spectrometry, 23rd Edition |
| 56 | CHEMICAL- WATER | Ground water | Alkalinity | APHA, 2320 B Titration Method, 23rd Edition |
| 57 | CHEMICAL- WATER | Ground water | Ammonical Nitrogen | APHA 4500-NH3 B Preliminary Distillation step followed by 4500-NH3-C Titrimetric method 23rd Edition |
| 58 | CHEMICAL- WATER | Ground water | Biochemical Oxygen Demand (BOD) | IS 3025 Methods of Sampling and Test (Physical and Chemical) for Water and Wastewater) Part 44 Biochemical Oxygen Demand |
| 59 | CHEMICAL- WATER | Ground water | Boron | APHA, 4500-B Curcumine Method, 23rd Edition |
| 60 | CHEMICAL- WATER | Ground water | Calcium Hardness | APHA, 3500-Ca B. EDTA Titrimetric method, 23rd Edition |
| 61 | CHEMICAL- WATER | Ground water | Chemical Oxygen Demand (COD) | APHA, 5220 COD B. Open reflux method, 23rd Edition |

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| 62 | CHEMICAL- WATER | Ground water | Chloride | APHA, 4500 Cl- B Argentometric method, 23rd Edition |
| 63 | CHEMICAL- WATER | Ground water | Conductivity | APHA, 2510 Conductivity B. Laboratory Method, 23rd edition |
| 64 | CHEMICAL- WATER | Ground water | Dissolved Oxygen | APHA, 4500-O C Azide Modification method 23rd Edition |
| 65 | CHEMICAL- WATER | Ground water | Fluoride | APHA, 4500-F C Ion-Selective Electrode method 23rd Edition |
| 66 | CHEMICAL- WATER | Ground Water | Magnesium Hardness | APHA, 3500-Mg B Calculation method 23rd Edition |
| 67 | CHEMICAL- WATER | Ground water | Nitrate Nitrogen | APHA, 4500-NO3- -E Cadmium Reduction method , 23rd Edition |
| 68 | CHEMICAL- WATER | Ground water | Nitrite Nitrogen | APHA, 4500-NO2- B. Colorimetric Method, 23rd Edition |
| 69 | CHEMICAL- WATER | Ground water | Ortho phosphate | APHA, 4500-P-D, Stannous chloride Method, 23rd Edn |
| 70 | CHEMICAL- WATER | Ground water | pH | APHA, 4500-H+ B. Electrometric method, 23rd Edition |
| 71 | CHEMICAL- WATER | Ground water | Potassium | APHA, 3500-K B. Flame Photometric Method, 23rd Edition |
| 72 | CHEMICAL- WATER | Ground water | Sodium | APHA, 3500-Na B. Flame Emission Photometric Method |
| 73 | CHEMICAL- WATER | Ground water | Sulphate | APHA, 4500-Sulphate E. Turbidimetric method, 23rd Edition |
| 74 | CHEMICAL- WATER | Ground Water | Temperature | APHA, 2550 Temperature B Laboratory and Field Methods |
| 75 | CHEMICAL- WATER | Ground water | Total Dissolved Solids | APHA, 2540 C. Total Dissolved Solids Dried at 180 C, 23rd Edition |
| 76 | CHEMICAL- WATER | Ground water | Total Fixed Solids | APHA, 2540 E. Fixed and Volatile Solids Ignited at 550 C, 23rd Edition |

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| 77 | CHEMICAL- WATER | Ground water | Total Hardness | APHA, 2340 Hardness C EDTA Titrimetric method 23rd Edition |
| 78 | CHEMICAL- WATER | Ground water | Total Kjeldahl Nitrogen | APHA, 4500-Norg C. Semi-Micro-Kjeldahl Method |
| 79 | CHEMICAL- WATER | Ground water | Total solids | APHA, 2540 B. Total solids Dried at 103 -105 C, 23rd Edition |
| 80 | CHEMICAL- WATER | Ground water | Total suspended solids | APHA, 2540 D. Total Suspended Solids Dried at 103 - 105 C, 23rd Edition |
| 81 | CHEMICAL- WATER | Ground water | Turbidity | APHA, 2130 Turbidity B. Nephelometric Method, 23rd Edition |
| 82 | CHEMICAL- WATER | surface water | Total Dissolved solids | APHA, 2540 C. Total Dissolved Solids Dried at 180 C, 23rd Edition |
| 83 | CHEMICAL- WATER | surface water | Alkalinity | APHA, Alkalinity B. Titration Method, 23rd Edition |
| 84 | CHEMICAL- WATER | Surface water | Ammonical Nitrogen | APHA, 4500-NH3 B Preliminary Distillation step followed by 4500-NH3-C Titrimetric method 23rd Edition |
| 85 | CHEMICAL- WATER | Surface water | Biochemical oxygen demand | IS 3025 Methods of Sampling and Test (Physical and Chemical) for Water and Wastewater) Part 44 Biochemical Oxygen Demand |
| 86 | CHEMICAL- WATER | Surface water | Boron | APHA, 4500-B Curcumine Method, 23rd Edition |
| 87 | CHEMICAL- WATER | Surface water | Calcium Hardness | APHA, 3500-Ca B. EDTA Titrimetric method, 23rd Edition |
| 88 | CHEMICAL- WATER | Surface water | Chemical oxygen demand | APHA, 5220 COD B. Open reflux method, 23rd Edition |
| 89 | CHEMICAL- WATER | Surface water | Chloride | APHA, 4500-Cl- B. Argentometric Method |
| 90 | CHEMICAL- WATER | surface water | conductivity | APHA, 2510 Conductivity B. Laboratory Method |
| 91 | CHEMICAL- WATER | Surface water | Dissolved oxygen | APHA, 4500-O C Azide Modification method 23rd Edition |

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| 92 | CHEMICAL- WATER | Surface water | Fluoride | APHA, 4500-F C Ion-Selective Electrode method 23rd Edition |
| 93 | CHEMICAL- WATER | Surface water | Magnesium Hardness | APHA, 3500-Mg B Calculation method 23rd Edition |
| 94 | CHEMICAL- WATER | Surface water | Nitrate Nitrogen | APHA, 4500-NO3- -E cadmium Reduction method followed by 4500-NO2- B. Colorimetric Method, 23rd Edition |
| 95 | CHEMICAL- WATER | Surface water | Nitrite Nitrogen | APHA, 4500-NO2- B. Colorimetric Method, 23rd Edition |
| 96 | CHEMICAL- WATER | Surface water | Ortho Phosphate | APHA, 4500-P-D, Stannous chloride Method, 23rd Edn |
| 97 | CHEMICAL- WATER | surface water | pH | APHA, 4500-H+ B. Electrometric Method, 23rd Edition |
| 98 | CHEMICAL- WATER | Surface water | Potassium | APHA, 3500-K B. Flame Photometric Method, 23rd Edition |
| 99 | CHEMICAL- WATER | Surface water | Sodium | APHA, 3500-Na B. Flame Emission Photometric Method |
| 100 | CHEMICAL- WATER | Surface water | Sulphate | APHA, 4500-Sulphate E. Turbidimetric method, 23rd Edition |
| 101 | CHEMICAL- WATER | Surface water | Temperature | APHA, 2550-Temperature B. Laboratory and Field methods, 23rd Edition |
| 102 | CHEMICAL- WATER | surface water | Total Fixed Solids | APHA, 2540 E. Fixed and Volatile Solids Ignited at 550 C, 23rd Edition |
| 103 | CHEMICAL- WATER | surface water | Total Hardness | APHA, 2340- Hardness C. EDTA Titrimetric Method, 23rd Edition |
| 104 | CHEMICAL- WATER | Surface water | Total Kjeldahl Nitrogen | APHA, 4500-Norg C. Semi-Micro-Kjeldahl Method |
| 105 | CHEMICAL- WATER | surface water | Total Solid | APHA, 2540 B. Total solids Dried at 103 -105 C, 23rd Edition |
| 106 | CHEMICAL- WATER | surface water | Total suspended solids | APHA, 2540 D. Total Suspended Solids Dried at 103 - 105 C, 23rd Edition |

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| 107 | CHEMICAL- WATER | surface water | Turbidity | APHA, 2130 Turbidity B Nephelometric Method, 23rd Edition |