National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ADVANCED ENVIRONMENTAL LABORATORY, TAMILNADU POLLUTION CONTROL BOARD, SALEM, 1/276, MEYYANUR MAIN ROAD, SIVA TOWER, SALEM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9899 **Page No** 1 of 4

Validity 24/09/2021 to 23/09/2023 **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	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Oxides of Nitrogen as NOx	IS 5182 (Part 6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Respirable Suspended particulate Matter (PM10)	IS 5182 (Part 23)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur dioxide as SO2	IS 5182 (Part 2)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Levels	Sound Level	IS 9989
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter	IS 11255 (Part 1)
6	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Acidity as CaCO3	APHA 23rd Edn (2310-B)
7	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Alkalinity as CaCO3	APHA 23d Edn (2320-B)
8	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Ammonical Nitrogen as NH3	APHA 23rd Edn (4500-NH3)
9	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Biochemical Oxygen Demand (3 days @ 27°C)	IS 3025 (Part 44)
10	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Cadmium as Cd	APHA 23rd Edn, 3111-B
11	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Calcium as Ca	APHA 23rd Edn (3500 Ca)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Calcium Hardness as CaCO3	APHA 23rd Edn (3500 Ca)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Chemical Oxygen Demand	APHA 23rd Edn (5220 B)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Chloride as Cl	APHA 23rd Edn (4500 Cl B)
15	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Conductivity 25°C	APHA 23rd Edn (2510 B)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Copper as Cu	APHA 23rd Edn, 3111-B
17	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Cyanide as CN	APHA 23rd Edn (4500 CN-E)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Flouride as F	APHA 23rd Edn (4500 F B,D)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9899 **Page No** 2 of 4

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Hexavalent Chromium as Cr6+	APHA 23rd Edn (3500 Cr B)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Lead as Pb	APHA 23rd Edn, 3111-B
21	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Magnesium as Mg	APHA 23rd Edn (3500 Mg)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Magnesium Hardness as CaCO3	APHA 23rd Edn (3500 Mg-B)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Nickel as Ni	APHA 23rd Edn, 3111-B
24	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Nitrate Nitrogen as NO3-N	APHA 23rd Edn (4500 NO3-B)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Sulphate as SO4	APHA 23rd Edn (4500 SO4-E)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Dissolved Solids	APHA 23rd Edn (2540 C)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Hardness	APHA 23rd Edn(2340 C)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Kjeldahl Nitrogen	APHA 23rd Edn(4500-N-B)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Solids	APHA 23rd Edn(2540 B)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Suspended Solids@105°C	APHA 23rd Edn(2540 D)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Volatile Solids @ 550°C	APHA 23rd Edn(2540 E)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Zinc as Zn	APHA 23rd Edn, 3111-B
33	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Dissolved Oxygen	APHA 23rd Edn(4500 C)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Nitrite Nitrogen as NO2-N	APHA 23rd Edn (4500 NO2-B)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Oil & Grease	APHA 23rd Edn (5520 B)
36	CHEMICAL- POLLUTION & ENVIRONMENT	EffluentS/Sewage	Percent Sodium	TNPCB/AELSLM/ SOP/35 Issue No .1 April 25
37	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	pH Value @ 25°C	APHA 23rd Edn (4500H+)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9899 **Page No** 3 of 4

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Phenolic Compounds	APHA 23rd Edn (5530 C)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Phosphate as PO4	APHA 23rd Edn (4500 P-E)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Potassium as K	APHA 23rd Edn (3500 K-B)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Sodium as Na	APHA 23rd Edn (3500 Na-B)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Chromium as Cr	APHA 23rd Edn (3500 Cr-D)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Fixed Solid @ 550°C	APHA 23rd EDn (2540-E)
44	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Iron as Fe	APHA 23rd Edn(3500 Fe B)
45	CHEMICAL- RESIDUES IN WATER	Water	Cadmium as Cd	APHA 23rd Edn, 3111-B
46	CHEMICAL- RESIDUES IN WATER	Water	Copper as Cu	APHA 23rd Edn, 3111-B:
47	CHEMICAL- RESIDUES IN WATER	Water	Lead as Pb	APHA 23rd Edn, 3111-B
48	CHEMICAL- RESIDUES IN WATER	Water	Nickel as Ni	APHA 23rd Edn, 3111-B
49	CHEMICAL- RESIDUES IN WATER	Water	Total Chromium as Cr	APHA 23rd Edn (3500 Cr B)
50	CHEMICAL- RESIDUES IN WATER	Water	Total iron as Fe	APHA 23rd Edn(3500 Fe B)
51	CHEMICAL- RESIDUES IN WATER	Water	Zinc as Zn	APHA 23rd Edn, 3111-B
52	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Acidity as CaCO3	APHA 23rd Edn(2310-B)
53	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Alkalinity as CaCO3	APHA 23rd Edn(2320-B)
54	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Ammonical Nitrogen as NH3-N	APHA 23rd Edn(4500-NH3 C)
55	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Biochemical Oxygen Demand (3 Days@27°C)	IS 3025(Part-44)
56	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Calcium as Ca	APHA 23rd Edn(3500 Ca B)
57	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Calcium Hardness as CaCO3	APHA 23rd Edn (3500 Ca)
58	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Chemical Oxygen Demand	APHA 23rd Edn (5220 B)

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Certificate Number TC-9899 **Page No** 4 of 4

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59	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Chloride as Cl	APHA 23rd Edn (4500 Cl B)
60	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Conductivity @ 25°C	APHA 23rd Edn (2510 B)
61	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Cyanide as CN	APHA 23rd Edn (4500-CN E)
62	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Dissolved Oxygen	APHA 23rd Edn (4500-O C)
63	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Fluoride as F	APHA 23rd Edn (4500-F B,D)
64	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Hexavalent Chromium as Cr6+	APHA 23rd Edn (3500 Cr B)
65	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Magnesium as Mg	APHA 23rd Edn (3500 Mg)
66	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Magnesium Hardnessas CaCO3	APHA 23rd Edn (3500 Mg-B)
67	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Nitrate Nitrogen as NO3-N	APHA 23rd Edn (4500 NO3-B)
68	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Nitrite Nitrogen as NO2-N	APHA 23rd Edn (4500 NO2-B)
69	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Oil & Grease	APHA 23rd Edn (5520 B)
70	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	pH Value @ 25°C	APHA 23rd Edn (4500H+)
71	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Phenolic Compounds as C6H5OH	APHA 23rd Edn (5530 C)
72	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Phosphate as PO4	APHA 23rd Edn (4500-P E)
73	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Potassium as K	APHA 23rd Edn (3500 K-B)
74	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Sodium as Na	APHA 23rd Edn (3500 Na-B)
75	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Sulphate as SO4	APHA 23rd Edn (4500 SO4-E)
76	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Total Dissolved Solids	APHA 23rd Edn (2540 C)
77	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Total Fixed Solids @ 550°C	APHA 23rd Edn (2540 E)
78	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Total Hardness as CaCO3	APHA 23rd Edn (2340 C)
79	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Total Kjeldahl Nitrogen	APHA 23rd Edn (4500-Norg-B)
80	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Total Solids	APHA 23rd Edn (2540 B)
81	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Total Suspended Solids	APHA 23rd Edn (2540 D)
82	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Total Volatile Solids @ 550°C	APHA 23rd Edn (2540 E)
83	CHEMICAL- WATER	Surface Water (Lake Water & River Water)	Turbidity	APHA 23rd Edn-2130-B