National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ADVANCED ENVIRONMENTAL LABORAORY,TAMILNADU POLLUTION CONTROL BOARD, NO.76, MOUNT SALAI, GUINDY, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10097 **Page No** 1 of 6

Validity 29/11/2021 to 28/11/2023 **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	Respirable Suspended Particulate Matter (PM10)	IS 5182: (Part 23)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Oxides of Nitrogen (as NOx)	IS 5182 (Part 6)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur dioxide as SO2	IS 5182 (Part 2)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient noise levels (Excluding vibration)	Sound level (Leq)	IS 9989
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Temperature	IS 11255:(part 3)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Gaseous Emission	IS 11255: (Part 3)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxides of Nitrogen (as NOx)	USEPA CPM/030
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter	IS 11255 (Part 1)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide (as SO2)	IS 11255 (Part 2)
10	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	velocity	IS 11255:(part 3)
11	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Chemical Oxygen demand	IS 3025 (Part 58)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	% Sodium	AEL - CHN/SOP/W28
13	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Acidity	APHA 23rd Edn -2310 B
14	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Alkalinity as CaCo3	APHA 23rd Edn -2320 B
15	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Ammonical Nitrogen as NH3 - N	APHA 23rd Edn -4500 - NH3 C
16	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Bio Chemical oxygen demand (3 days @ 27°C)	IS 3025 (Part 44) - 1993
17	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Cadmiumas Cd	APHA23rd Edn, 3111-B
18	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Calcium as Ca	APHA 23rd Edn -3500 - Ca B

SCOPE OF ACCREDITATION

Laboratory Name : ADVANCED ENVIRONMENTAL LABORAORY,TAMILNADU POLLUTION CONTROL BOARD, NO.76, MOUNT SALAI, GUINDY, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10097 **Page No** 2 of 6

Validity 29/11/2021 to 28/11/2023 **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
19	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Calcium Hardness as CaCO3	APHA 23rd Edn -3500 - Ca B
20	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & Treated Water	Chloride as Cl	APHA 23rd Edn -4500 Cl B
21	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Conductivity@ 25°C	APHA 23rd Edn -2510 B
22	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Dissolved Oxygen	APHA 23rd Edn -4500 - O C
23	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Fluoride as F	APHA 23rd Edn -4500 F B,D
24	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Hexavalent Chromium as Cr 6+	APHA 23rd Edn -3500 - Cr B
25	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Iron as Fe	APHA23rd Edn, 3111-B
26	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Magnesium as Mg	APHA 23rd Edn -3500 - Mg B
27	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Magnesium Hardness as CaCO3	APHA 23rd Edn-3500 Mg B
28	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Manganese as Mn	APHA23rd Edn, 3111-B
29	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Nitrite nitrogen as NO2 - N	APHA 23rd Edn -4500 NO2 B
30	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Oil & grease	APHA 23rd Edn-5520 B
31	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Phenolic Compounds as C6H5OH	APHA 23rd Edn -5530 C
32	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Phosphate as PO4	APHA 23rd Edn -4500- P E
33	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Potassium as K	APHA 23rd Edn-3500 - K -B
34	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & Treated water	Sodium as Na	APHA 23rd Edn -2540C
35	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Sulphate as SO4	APHA 23rd Edn -4500 SO4 2- E
36	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Total Chromium as Cr	APHA 23rd Edn -3500 - Cr B
37	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Total dissolved sollids @ 180°C	APHA 23rd Edn -2540 C

SCOPE OF ACCREDITATION

Laboratory Name : ADVANCED ENVIRONMENTAL LABORAORY,TAMILNADU POLLUTION CONTROL BOARD, NO.76, MOUNT SALAI, GUINDY, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10097 **Page No** 3 of 6

Validity 29/11/2021 to 28/11/2023 **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
38	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Total fixed solids @ 550°C	APHA 23rd Edn -2540 E
39	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Total Hardness as CaCO3	APHA 23rd Edn -2340 C
40	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Total Kjeldhal Nitrogen	APHA 23rd Edn -4500 Norg B
41	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Total suspended solids @ 105°C	APHA 23rd Edn -2540 D
42	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Total volatile solids @ 550°C	APHA 23rd Edn -2540 E
43	CHEMICAL- POLLUTION & ENVIRONMENT	Raw & treated water	Zinc as Zn	APHA23rd Edn, 3111-B
44	CHEMICAL- POLLUTION & ENVIRONMENT	Raw and treated water	pH value@ 25°C	APHA 23rd Edn -4500 H+ B
45	CHEMICAL- POLLUTION & ENVIRONMENT	Raw&treated water	Copperas Cu	APHA23rd Edn, 3111-B
46	CHEMICAL- POLLUTION & ENVIRONMENT	Raw&treated water	Lead as Pb	APHA23rd Edn, 3111-B
47	CHEMICAL- POLLUTION & ENVIRONMENT	Raw&treated water	Nickel as Ni	APHA23rd Edn, 3111-B
48	CHEMICAL- RESIDUES IN WATER	Trace Metal Elements	Cadmium as Cd	APHA 23rd Edn, 3111-B
49	CHEMICAL- RESIDUES IN WATER	Trace Metal Elements	Copper as Cu	APHA 23rd Edn, 3111-B
50	CHEMICAL- RESIDUES IN WATER	Trace Metal Elements	Iron as Fe	APHA 23rd Edn, 3111-B
51	CHEMICAL- RESIDUES IN WATER	Trace Metal Elements	Lead as Pb	APHA 23rd Edn, 3111-B
52	CHEMICAL- RESIDUES IN WATER	Trace metal elements	Manganese as Mn	APHA23rd Edn, 3111-B
53	CHEMICAL- RESIDUES IN WATER	Trace Metal Elements	Nickel as Ni	APHA 23rd Edn, 3111-B
54	CHEMICAL- RESIDUES IN WATER	Trace Metal Elements	Zinc as Zn	APHA 23rd Edn, 3111-B
55	CHEMICAL- WATER	Ground Water	Acidity as CaCO3	APHA 23rd Edn-2310-B
56	CHEMICAL- WATER	Ground Water	Alkalinity as CaCO3	APHA 23rd Edn -2320 - B
57	CHEMICAL- WATER	Ground Water	Ammonical nitrogen as NH3-N	APHA 23rd Edn -4500 NH3 C

SCOPE OF ACCREDITATION

Laboratory Name : ADVANCED ENVIRONMENTAL LABORAORY,TAMILNADU POLLUTION CONTROL BOARD, NO.76, MOUNT SALAI, GUINDY, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10097 **Page No** 4 of 6

Validity 29/11/2021 to 28/11/2023 **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
58	CHEMICAL- WATER	Ground Water	Bio chemical oxygen demand (3 days at 27 °C)	IS 3025 (Part 44)
59	CHEMICAL- WATER	Ground Water	Calcium as Ca	APHA 23rd Edn -3500 - Ca B
60	CHEMICAL- WATER	Ground Water	Calcium Hardness as CaCO3	APHA 23rd Edn -3500 - Ca B
61	CHEMICAL- WATER	Ground Water	Chemical oxygen demand (open reflux method)	IS 3025 (Part 58)
62	CHEMICAL- WATER	Ground Water	Chloride as Cl	APHA 23rd Edn -4500-Cl B
63	CHEMICAL- WATER	Ground Water	Conductivity@25 °C	APHA 23rd Edn -2510 B
64	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	APHA 23rd Edn -4500 - O C
65	CHEMICAL- WATER	Ground Water	Fluoride as F-	APHA 23rd Edn -4500 - F-B,D
66	CHEMICAL- WATER	Ground Water	Hexavalent Chromium as Cr 6+	APHA 23rd Edn -3500 Cr B
67	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA 23rd Edn -3500-Mg B
68	CHEMICAL- WATER	Ground Water	Magnesium Hardness as CaCO3	APHA 23rd Edn -3500 - Mg B
69	CHEMICAL- WATER	Ground Water	Nitrate Nitrogen as NO3 – N	APHA 23rd Edn -4500 NO3 B
70	CHEMICAL- WATER	Ground Water	Nitrite Nitrogen as NO2 – N	APHA 23rd Edn -4500 NO2 B
71	CHEMICAL- WATER	Ground Water	Oil & grease	APHA 23rd Edn -5520 B
72	CHEMICAL- WATER	Ground Water	PH Value@25°C	APHA 23rd Edn-4500H+B
73	CHEMICAL- WATER	Ground Water	Phenolic compounds as C6H5OH	APHA 23rd Edn -5530 C
74	CHEMICAL- WATER	Ground Water	Phosphate as PO4	APHA 23rd Edn-4500 P - E
75	CHEMICAL- WATER	Ground Water	Potassium as K	APHA 23rd Edn -3500 - K B
76	CHEMICAL- WATER	Ground Water	Sodium as Na	APHA 23rd Edn -3500- Na B
77	CHEMICAL- WATER	Ground Water	Sulphate as SO4	APHA 23rd Edn -4500-SO4 E
78	CHEMICAL- WATER	Ground Water	Total Chromium as Cr	APHA 23rd Edn -3500 Cr B
79	CHEMICAL- WATER	Ground Water	Total dissolved solids @ 180°C	APHA 23rd Edn -2540C
80	CHEMICAL- WATER	Ground Water	Total fixed solids@550 °C	APHA 23rd Edn -2540 E
81	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	APHA 23rd Edn -2340 C
82	CHEMICAL- WATER	Ground Water	Total Kjeldhal Nitrogen as N	APHA 23rd Edn -4500 Norg B
83	CHEMICAL- WATER	Ground Water	Total Suspended solids@105 °C	APHA 23rd Edn -2540D
84	CHEMICAL- WATER	Ground Water	Total volatile solids@550 °C	APHA 23rd Edn -2540 E

SCOPE OF ACCREDITATION

Laboratory Name : ADVANCED ENVIRONMENTAL LABORAORY,TAMILNADU POLLUTION CONTROL BOARD, NO.76, MOUNT SALAI, GUINDY, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10097 **Page No** 5 of 6

Validity 29/11/2021 to 28/11/2023 **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
85	CHEMICAL- WATER	Lake & River water	Nitrate Nitrogen as NO3 - N	APHA 23rd Edn -4500 NO3 B
86	CHEMICAL- WATER	Lake & River water	Hexavalent Chromium as Cr 6+	APHA 23rd Edn-3500 Cr B
87	CHEMICAL- WATER	Lake & River Water	Acidity as CaCO3	APHA 23rd Edn -2310-B
88	CHEMICAL- WATER	Lake & River water	Alkalinity as CaCO3	APHA 23rd Edn -2320 - B
89	CHEMICAL- WATER	Lake & River water	Ammonical nitrogen as NH3-N	APHA 23rd Edn -4500 NH3 C
90	CHEMICAL- WATER	Lake & River water	Bio chemical oxygen demand (3 days at 27 °C)	IS 3025 (Part 44)
91	CHEMICAL- WATER	Lake & River water	Calcium as Ca	APHA 23rd Edn -3500 - Ca B
92	CHEMICAL- WATER	Lake & River water	Calcium Hardness as CaCO3	APHA 23rd Edn -3500 - Ca B
93	CHEMICAL- WATER	Lake & River water	Chemical oxygen demand (open reflux method)	IS 3025 (Part 58)
94	CHEMICAL- WATER	Lake & River water	Chloride as Cl	APHA 23rd Edn -4500-Cl B
95	CHEMICAL- WATER	Lake & River water	Conductivity@25 °C	APHA 23rd Edn -2510 B
96	CHEMICAL- WATER	Lake & River water	Dissolved Oxygen	APHA 23rd Edn -4500 - O C
97	CHEMICAL- WATER	Lake & River water	Fluoride as F-	APHA 23rd Edn -4500 - F-B,D
98	CHEMICAL- WATER	Lake & River water	Magnesium as Mg	APHA 23rd Edn -3500-Mg B
99	CHEMICAL- WATER	Lake & River water	Magnesium Hardness as CaCO3	APHA 23rd Edn -3500 - Mg B
100	CHEMICAL- WATER	Lake & River water	Nitrite Nitrogen as NO2 - N	APHA 23rd Edn -4500 NO2 B
101	CHEMICAL- WATER	Lake & River water	Oil & grease	APHA 23rd Edn -5520B
102	CHEMICAL- WATER	Lake & River Water	PH Value@25°C	APHA 23rd Edn-4500H+B
103	CHEMICAL- WATER	Lake & River Water	Phenolic compounds as C6H5OH	APHA 23rd Edn -5530 C
104	CHEMICAL- WATER	Lake & River Water	Phosphate as PO4	APHA 23rd Edn -4500 P - E
105	CHEMICAL- WATER	Lake & River water	Potassium as K	APHA 23rd Edn -3500 - K B
106	CHEMICAL- WATER	Lake & River water	Sodium as Na	APHA 23rd Edn -3500- Na B
107	CHEMICAL- WATER	Lake & River water	Sulphate as SO4	APHA 23rd Edn -4500-SO4 E
108	CHEMICAL- WATER	Lake & River water	Total dissolved solids @ 180°C	APHA 23rd Edn -2540C
109	CHEMICAL- WATER	Lake & River water	Total fixed solids@550 °C	APHA 23rd Edn -2540 E
110	CHEMICAL- WATER	Lake & River water	Total Hardness as CaCO3	APHA 23rd Edn -2340 C: 2017
111	CHEMICAL- WATER	Lake & River water	Total Kjeldhal Nitrogen as N	APHA 23rd Edn -4500 Norg B

SCOPE OF ACCREDITATION

Laboratory Name : ADVANCED ENVIRONMENTAL LABORAORY,TAMILNADU POLLUTION CONTROL BOARD, NO.76, MOUNT SALAI, GUINDY, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10097 **Page No** 6 of 6

Validity 29/11/2021 to 28/11/2023 **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
112	CHEMICAL- WATER	Lake & River Water	Total Suspended solids@105 °C	APHA 23rd Edn -2540D
113	CHEMICAL- WATER	Lake & River water	Total volatile solids@550 °C	APHA 23rd Edn -2540 E
114	CHEMICAL- WATER	Lake& River water	Total Hardness as CaCO3	APHA 23rd Edn -2340 C