National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ENVIRONMENTAL ANALYTICAL LABORATORY, DEPARTMENT OF SCIENCE, TECHNOLOGY & ENVIRONMENT, PUDUCHERRY POLLUTION CONTROL COMMITTEE, R.S.NO. 189, GARAGE BUILDING, IYYANAR KOIL STREET, MARIE OULGARET, METTUPALAYAM, PUDUCHERRY, INDIA

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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	Nitrogen Dioxide (as NO2)	IS 5182 (Part 6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Respirable Particulate Matter (size less than 10µm) or PM 10	IS 5182 (Part 23)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (as SO2)	IS 5182 (Part 2):
4	CHEMICAL- ATMOSPHERIC POLLUTION	Noise Level(Industrial, Ambient Noise, DG Set)	Leq dB(A), dB (A), Lmax, Lmin, Ln (L10, L50, L90)	IS 9989
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Monitoring	CO	USEPA Method - 10 - Using Flue Gas Analyser
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Monitoring	CO2	USEPA Method - 3A - Using Flue Gas Analyser
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Monitoring	Flow Rate	IS 11255 (Part 3)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Monitoring	NOx	IS 11255 (Part 7)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Monitoring	NOx	USEPA Method - 7E - Using Flue Gas Analyser
10	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Monitoring	O2	USEPA Method - 3A - Using Flue Gas Analyser
11	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Monitoring	Particulate Matter (PM)	IS: 11255 (Part 1)
12	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Monitoring	SO2	USEPA Method - 6C - using flue gas analyser
13	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Monitoring	Sulphur Dioxide (as SO2)	IS: 11255 (Part 2)
14	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Monitoring	Temperature	IS 11255 (Part 3)
15	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Monitoring	Velocity	IS 11255 (Part 3)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Ammonia-N	APHA 23rd Edition, 4500-NH3 F
17	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Bio Chemical Oxygen Demand (3 days @ 27ºC)	IS 3025 (Part 44)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Bio Chemical Oxygen Demand (5 days @ 20ºC)	APHA 23rd Edition, 5210-B

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Chemical Oxygen Demand	IS 3025 (Part 58)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Chloride as Cl-	APHA 23rd Edition, 4500-Cl- B
21	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Chlorine Residual	IS 3025 (Part 26)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Hexavalent Chromium as Cr6+	APHA 23rd Edition, 3500-Cr B
23	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Nitrate - N	APHA 23rd Edition, 4500-NO3-B
24	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Nitrate - N	APHA 23rd Edition, 4500-NO3-E
25	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Nitrite-N	APHA 23rd Edition, 4500-NO2-B
26	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Oil & grease	IS 3025 (Part 39)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	pH Value@25°C	APHA 23rd Edition, 4500-H+ B
28	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Phosphate as PO43- -P	APHA 23rd Edition, 4500-P D
29	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Sulphate as SO42-	APHA 23rd Edition, 4500-SO42-E
30	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Temperature	APHA 23rd Edition, 2550 B
31	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Total Dissolved solids Dried at 180°C	APHA 23rd Edition, 2540 C
32	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent (Effluent Water, STP Water)	Total Suspended Solids Dried at 103-105ºC	APHA 23rd Edition, 2540 D
33	CHEMICAL- WATER	River Water	Dissolved Oxygen	APHA 23rd Edition, 4500-O C
34	CHEMICAL- WATER	Ground Water	Ammonia-N	APHA 23rd Edition, 4500-NH3 F
35	CHEMICAL- WATER	Ground Water	Bio Chemical Oxygen Demand (3 days @ 27ºC)	IS 3025 (Part 44)
36	CHEMICAL- WATER	Ground Water	Bio Chemical Oxygen Demand (5 days @ 20ºC)	APHA 23rd Edition, 5210-B
37	CHEMICAL- WATER	Ground Water	Calcium as Ca	APHA 23rd Edition, 3500-Ca B
38	CHEMICAL- WATER	Ground Water	Calcium Hardness as CaCO3	APHA 23rd Edition, 3500-Ca B
39	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand	IS 3025 (Part 58)

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40	CHEMICAL- WATER	Ground Water	Chloride as Cl-	APHA 23rd Edition, 4500-Cl- B
41	CHEMICAL- WATER	Ground Water	Conductivity@25°C	APHA 23rd Edition, 2510 B
42	CHEMICAL- WATER	Ground Water	Hexavalent Chromium as Cr6+	APHA 23rd Edition, 3500-Cr B
43	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA 23rd Edition, 3500-Mg B
44	CHEMICAL- WATER	Ground Water	Magnesium hardness as CaCO3	APHA 23 rd Edition, 3500-Mg B
45	CHEMICAL- WATER	Ground Water	Nitrate - N	APHA 23rd Edition, 4500-NO3-B
46	CHEMICAL- WATER	Ground Water	Nitrate - N	APHA 23rd Edition, 4500-NO3-E
47	CHEMICAL- WATER	Ground Water	Nitrite-N	APHA 23rd Edition, 4500-NO2-B
48	CHEMICAL- WATER	Ground Water	pH Value@25°C	APHA 23rd Edition , 4500-H+ B
49	CHEMICAL- WATER	Ground Water	Phenolphthalein Alkalinity	APHA 23rd Edition, 2320 B
50	CHEMICAL- WATER	Ground water	Phosphate as PO43- -P	APHA 23 rd Edition, 4500-P D
51	CHEMICAL- WATER	Ground Water	Potassium as K	APHA 23rd Edition, Part No. 3500 Na -B
52	CHEMICAL- WATER	Ground Water	Sodium as Na	APHA 23rd Edition, Part No. 3500 Na-B
53	CHEMICAL- WATER	Ground water	Sulphate as SO42-	APHA 23rd Edition, 4500-SO42-E
54	CHEMICAL- WATER	Ground water	Temperature	APHA 23rd Edition, 2550 B
55	CHEMICAL- WATER	Ground Water	Total Alkalinity as CaCO3	APHA 23rd Edition, 2320 B
56	CHEMICAL- WATER	Ground water	Total Dissolved Solids dried at 180°C	APHA 23rd Edition, 2540 C
57	CHEMICAL- WATER	Ground water	Total Fixed Solids ignited at 550 °C	APHA 23rd Edition, 2540 E
58	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C
59	CHEMICAL- WATER	Ground water	Total Suspended Solids Dried at 103-105ºC	APHA 23rd Edition, 2540 D
60	CHEMICAL- WATER	Ground water	Turbidity	APHA 23rd Edition, 2130 B
61	CHEMICAL- WATER	Lake Water	Ammonia-N	APHA 23rd Edition, 4500-NH3 F
62	CHEMICAL- WATER	Lake water	Bio Chemical Oxygen Demand (3 days @ 27ºC)	IS 3025 (Part 44)
63	CHEMICAL- WATER	Lake Water	Bio Chemical Oxygen Demand (5 days @ 20ºC)	APHA 23rd Edition, 5210-B
64	CHEMICAL- WATER	Lake water	Calcium as Ca	APHA 23rd Edition, 3500-Ca B:
65	CHEMICAL- WATER	Lake water	Calcium hardness as CaCO3	APHA 23rd Edition, 3500-Ca B:

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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
66	CHEMICAL- WATER	Lake water	Chemical Oxygen Demand	IS 3025 (Part 58)
67	CHEMICAL- WATER	Lake water	Chloride as Cl-	APHA 23rd Edition, 4500-Cl- B:
68	CHEMICAL- WATER	Lake water	Conductivity@25°C	APHA 23rd Edition, 2510 B:
69	CHEMICAL- WATER	Lake water	Dissolved Oxygen	APHA 23rd Edition, 4500-O C:
70	CHEMICAL- WATER	Lake water	Hexavalent Chromium as Cr6+	APHA 23rd Edition, 3500-Cr B:
71	CHEMICAL- WATER	Lake water	Magnesium as Mg	APHA 23rd Edition, 3500-Mg B:
72	CHEMICAL- WATER	Lake water	Magnesium hardness as CaCO3	APHA 23 rd Edition, 3500-Mg B:
73	CHEMICAL- WATER	Lake Water	Nitrate - N	APHA 23rd Edition, 4500-NO3-E
74	CHEMICAL- WATER	Lake Water	Nitrate-N	APHA 23rd Edition, 4500-NO3-B
75	CHEMICAL- WATER	Lake Water	Nitrite-N	APHA 23rd Edition, 4500-NO2-B
76	CHEMICAL- WATER	Lake water	pH Value@25°C	APHA 23rd Edition , 4500-H+ B:
77	CHEMICAL- WATER	Lake Water	Phenolphthalein Alkalinity	APHA 23rd Edition, 2320 B
78	CHEMICAL- WATER	Lake water	Phosphate as PO43- -P	APHA 23rd Edition, 4500-P D:
79	CHEMICAL- WATER	Lake Water	Potassium as K	APHA 23rd Edition, Part No. 3500 Na -B
80	CHEMICAL- WATER	Lake Water	Sodium as Na	APHA 23rd Edition, Part No. 3500 Na -B
81	CHEMICAL- WATER	Lake water	Sulphate as SO42-	APHA 23rd Edition, 4500-SO42- E:
82	CHEMICAL- WATER	Lake water	Temperature	APHA 23rd Edition, 2550 B: 2017
83	CHEMICAL- WATER	Lake water	Total Alkalinity as CaCO3	APHA 23rd Edition, 2320 B:
84	CHEMICAL- WATER	Lake water	Total Dissolved solids Dried at 180°C	APHA 23rd Edition, 2540 C:
85	CHEMICAL- WATER	Lake water	Total Fixed Solids ignited at 550 °C	APHA 23rd Edition, 2540 E:
86	CHEMICAL- WATER	Lake water	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C:
87	CHEMICAL- WATER	Lake water	Total Suspended Solids Dried at 103-105ºC	APHA 23rd Edition, 2540 D:
88	CHEMICAL- WATER	Lake water	Turbidity	APHA 23rd Edition, 2130 B:
89	CHEMICAL- WATER	River Water	Ammonia-N	APHA 23rd Edition, 4500-NH3 F
90	CHEMICAL- WATER	River Water	Bio Chemical Oxygen Demand (3 days @ 27ºC)	IS 3025 (Part 44)

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91	CHEMICAL- WATER	River Water	Bio Chemical Oxygen Demand (5 days @ 20ºC)	APHA 23rd Edition, 5210-B
92	CHEMICAL- WATER	River Water	Calcium as Ca	APHA 23rd Edition, 3500-Ca B:
93	CHEMICAL- WATER	River Water	Calcium hardness as CaCO3	APHA 23rd Edition, 3500-Ca B:
94	CHEMICAL- WATER	River Water	Chemical Oxygen Demand	IS 3025 (Part 58)
95	CHEMICAL- WATER	River Water	Chloride as Cl-	APHA 23rd Edition, 4500-Cl- B:
96	CHEMICAL- WATER	River water	Conductivity@25°C	APHA 23rd Edition, 2510 B
97	CHEMICAL- WATER	River Water	Hexavalent Chromium as Cr6+	APHA 23rd Edition, 3500-Cr B:
98	CHEMICAL- WATER	River Water	Magnesium as Mg	APHA 23rd Edition, 3500-Mg B:
99	CHEMICAL- WATER	River Water	Magnesium hardness as CaCO3	APHA 23 rd Edition, 3500-Mg B:
100	CHEMICAL- WATER	River Water	Nitrate - N	APHA 23rd Edition, 4500-NO3-E
101	CHEMICAL- WATER	River Water	Nitrate-N	APHA 23rd Edition, 4500-NO3-B
102	CHEMICAL- WATER	River Water	Nitrite-N	APHA 23rd Edition, 4500-NO2-B
103	CHEMICAL- WATER	River Water	pH value @ 25°C	APHA 23rd Edition, 4500-H+ B
104	CHEMICAL- WATER	River Water	Phenolphthalein Alkalinity	APHA 23rd Edition, 2320 B
105	CHEMICAL- WATER	River Water	Phosphate as PO43- -P	APHA 23 rd Edition, 4500-P D:
106	CHEMICAL- WATER	River Water	Potassium as K	APHA 23rd Edition, Part No. 3500 Na -B
107	CHEMICAL- WATER	River Water	Sodium as Na	APHA 23rd Edition, Part No. 3500 Na -B
108	CHEMICAL- WATER	River Water	Sulphate as SO42-	APHA 23rd Edition, 4500-SO42- E:
109	CHEMICAL- WATER	River Water	Temperature	APHA 23rd Edition, 2550 B:
110	CHEMICAL- WATER	River Water	Total Alkalinity as CaCO3	APHA 23rd Edition, 2320 B:
111	CHEMICAL- WATER	River Water	Total Dissolved Solids dried at 180°C	APHA 23rd Edition, 2540 C:
112	CHEMICAL- WATER	River Water	Total Fixed Solids ignited at 550°C	APHA 23rd Edition, 2540 E:
113	CHEMICAL- WATER	River Water	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C:
114	CHEMICAL- WATER	River Water	Total suspended Solids Dried at 103-105°C	APHA 23rd Edition, 2540 D:
115	CHEMICAL- WATER	River Water	Turbidity	APHA 23rd Edition, 2130 B:
116	CHEMICAL- WATER	Sea Water	Ammonia-N	APHA 23rd Edition, 4500-NH3 F

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117	CHEMICAL- WATER	Sea Water	Bio Chemical Oxygen Demand (3 days @ 27ºC)	IS 3025 (Part 44) :
118	CHEMICAL- WATER	Sea Water	Bio Chemical Oxygen Demand (5 days @ 20ºC)	APHA 23rd Edition, 5210-B
119	CHEMICAL- WATER	Sea Water	Chemical Oxygen Demand	IS 3025 (Part 58) :
120	CHEMICAL- WATER	Sea Water	Conductivity@25°C	APHA 23rd Edition, 2510 B:
121	CHEMICAL- WATER	Sea Water	Dissolved Oxygen	APHA 23rd Edition, 4500-O C:
122	CHEMICAL- WATER	Sea Water	Nitrate - N	APHA 23rd Edition, 4500-NO3-E
123	CHEMICAL- WATER	Sea Water	Nitrate-N	APHA 23rd Edition, 4500-NO3-B
124	CHEMICAL- WATER	Sea Water	Nitrite-N	APHA 23rd Edition, 4500-NO2-B
125	CHEMICAL- WATER	Sea Water	Oil & grease	IS 3025 (Part 39)
126	CHEMICAL- WATER	Sea Water	pH Value@25°C	APHA 23rd Edition , 4500-H+ B:
127	CHEMICAL- WATER	Sea Water	Phenolphthalein Alkalinity	APHA 23rd Edition, 2320 B
128	CHEMICAL- WATER	Sea Water	Temperature	APHA 23rd Edition, 2550 B:
129	CHEMICAL- WATER	Sea Water	Total Alkalinity as CaCO3	APHA 23rd Edition, 2320 B
130	CHEMICAL- WATER	Sea Water	Total Dissolved Solids dried at 180°C	APHA 23rd Edition, 2540 C:
131	CHEMICAL- WATER	Sea Water	Total Suspended Solids Dried at 103-105ºC	APHA 23rd Edition, 2540 D:
132	CHEMICAL- WATER	Sea Water	Turbidity	APHA 23rd Edition, 2130 B: