National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : REGIONAL DIRECTORATE LABORATORY, CENTRAL POLLUTION CONTROL BOARD, REGIONAL DIRECTORATE, KOLKATA, 502 SOUTHEND CONCLAVE, 6TH FLOOR, 1582 RAJDANGA MAIN ROAD, KOLKATA, WEST BENGAL, INDIA

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Validity 17/03/2023 to 16/03/2025 **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	Wastewater (Sewage and Effluent)	Faecal Coliform (Multiple Tube Fermentation Technique)	APHA (23rd Ed.) 9221-E, 9-77 to 9-78 and Table 9221:IV
2	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Wastewater (Sewage and Effluent)	Faecal Streptococci (Multiple Tube Fermentation Technique)	APHA 23rd Ed, 9230B 9-118 to 9-119 and 9221-C Table 9221:IV 9-72-73
3	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Wastewater (Sewage and Effluent)	Total Coliform (Multiple Tube Fermentation Technique)	APHA 23rd Ed, 9221-B,9-6929-72 & Table 9221:IV
4	BIOLOGICAL- WATER	Surface water (Streams, River)	Diversity Score of Benthic Organisms testing	Doc No: CB/RDK/SOP-B/7.4/3 and Test Method No: CB/RDK/TM/B-04
5	BIOLOGICAL- WATER	Surface Water (Streams, River)	Faecal Coliform (Multiple Tube Fermentation Technique)	APHA (23rd Ed.) 9221-E, 9-77 to 9-78 and Table 9221:IV
6	BIOLOGICAL- WATER	Surface Water (Streams, River)	Faecal Streptococci (Multiple Tube Fermentation Technique)	APHA 23rd Ed, 9230B 9-118 to 9-119 and 9221-C Table 9221:IV 9-72-73
7	BIOLOGICAL- WATER	Surface Water (Streams, River)	Saprobic score of Benthic Organism Testing	Doc No: CB/RDK/SOP-B/7.4/3 and Test Method No: CB/RDK/TM/B-04
8	BIOLOGICAL- WATER	Surface Water (Streams, Rivers)	Total Coliform (Multiple Tube Fermentation Technique)	APHA (23rd Ed.) 9221-B, 9-69 to 9-72 and Table 9221:IV
9	BIOLOGICAL- WATER	Well and Ground water	Faecal Coliform (Multiple Tube Fermentation Technique)	APHA (23rd Ed), 9221-C 9-72 to 9-75 and Table 9221:II
10	BIOLOGICAL- WATER	Well and Ground water	Faecal Streptococci (Multiple Tube Fermentation Technique)	APHA (23rd Ed), 9230B 9-118 to 9-119 and 9221-C Table 9221:II, 9-72-73
11	BIOLOGICAL- WATER	Well and Groundwater	Total Coliform (Multiple Tube Fermentation Technique)	APHA (23rd Ed) 9221-C 9-72 to 9-75 and Table 9221:II
12	CHEMICAL- ATMOSPHERIC POLLUTION	Air (Ambient)	Oxides of Nitrogen (NO2) (Chemical)	IS 5182 (Part 6)
13	CHEMICAL- ATMOSPHERIC POLLUTION	Air (Ambient)	Respirable Suspended Particulate Matter (PM =10µ)	IS 5182 (Part 23)
14	CHEMICAL- ATMOSPHERIC POLLUTION	Air (Ambient)	Sulphur Dioxide(SO2) (Chemical)	IS 5182 (Part 2)
15	CHEMICAL- ATMOSPHERIC POLLUTION	Air (Source/ Stack Emissions)	Nitrogen Oxides (NOx) in Stack emission	IS 11255 (Part 7)
16	CHEMICAL- ATMOSPHERIC POLLUTION	Air (Source/Stack Emissions)	CO2 in Stack emission	EN 50379-1

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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
17	CHEMICAL- ATMOSPHERIC POLLUTION	Air (source/Stack Emissions)	O2 in Stack emission	EN 50379-1
18	CHEMICAL- ATMOSPHERIC POLLUTION	Air (Source/Stack Emissions)	Particulate Matter in stack emission	IS 11255 (Part 1)
19	CHEMICAL- ATMOSPHERIC POLLUTION	Air (Source/Stack Emissions)	Sulphur Dioxide (SO2) in stack emission	IS 11255 (Part 2)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phosphate- Phosphorus	APHA 23rd. Ed. 4500-P D 4-163
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Potassium	APHA 23rd. Ed. 3500- K, B 3-89
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sodium	APHA 23rd. Ed. 3500-Na B 3-99
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulfate	APHA 23rd. Ed. 4500- SO4 - E 4-199
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolved Solids	APHA 23rd, Ed.2540-C 2-69
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Solids	APHA 23rd Ed. 2540 -B 2-68
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	APHA 23rd Ed. 2540 -D 2-70
27	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Dissolved Oxygen	APHA 23rd. Ed. 4500-O C, 4-146
28	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage /Effluent)	Biochemical Oxygen Demand (20 deg. C for 5 days & 27 deg.C for 3 days)	APHA 23rd Ed. 5210-B, 5-6 & IS 3025 (Part-44)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage and Effluent)	Alkalinity as CaCO3	APHA 23rd. Ed. 2320- B 2-36
30	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage and Effluent)	Ammonical Nitrogen	APHA 23rd. Ed. 4500 NH3 B 4-114, C 4-116
31	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/ Effluent)	Hexavalent Chromium	APHA 23rd Ed. 3500-Cr, B 3-71
32	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Conductivity	APHA 23rd Ed. 2510- B 2-58
33	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Arsenic	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
34	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Boron	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58

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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
35	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Cadmium	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
36	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Calcium	APHA 23rd. Ed. 3500 -Ca B,3-69
37	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Chemical Oxygen Demand	APHA 23rd Ed. 5220-B 5-18
38	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Chloride	APHA 23rd Ed. 4500-Cl B4-75
39	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Chromium	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
40	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Copper	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
41	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Cyanide	APHA 23rd. Ed. 4500 CN C 4-44 , D 4-45 & E 4-46
42	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Fluoride	APHA 23rd. Ed. 4500-F- B 4-87, D 4-90
43	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Iron	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
44	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Kjeldhal Nitrogen	APHA 23rd. Ed. 4500- N Org B 4-139
45	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Lead	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
46	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Magnesium	APHA 23rd, Ed, 3500-Mg B 3-86
47	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Manganese	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
48	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Nickel	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
49	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Nitrate Nitrogen	APHA 23rd Ed. 4500-NO3-E, 4-131
50	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Nitrite Nitrogen	APHA 23rd Ed. 4500- NO2-B,4-124
51	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Oil & Grease	APHA 23rd, Ed, 5520 B 5-42, D 5-45
52	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	pH	APHA 23rd Ed. 4500- H + , B 4-95
53	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage/Effluent)	Zinc	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58

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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
54	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Nitrate Nitrogen	APHA 23rd Ed.4500-NO3-E 4-131
55	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Phosphate-Phosphorus	APHA 23rd Ed. 4500-P D, 4-163
56	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Potassium	APHA 23rd Ed. 3500-B, 3-89
57	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Sodium	APHA 23rd Ed. 3500-B, 3-99
58	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Sulfate	APHA 23rd Ed. 4500-SO4 E, 4-199
59	CHEMICAL- WATER	Water (Streams, river, Well and Groundwater)	Total Solids	APHA 23rd Ed. 2540 -B 2-68
60	CHEMICAL- WATER	Water (Streams, River, Well & Groundwater)	Arsenic	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
61	CHEMICAL- WATER	Water (Streams, River, Well & Groundwater)	Boron	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
62	CHEMICAL- WATER	Water (Streams, River, Well & Groundwater)	Cadmium	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
63	CHEMICAL- WATER	Water (Streams, River, Well & Groundwater)	Chromium	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
64	CHEMICAL- WATER	Water (Streams, River, Well & Groundwater)	Copper	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
65	CHEMICAL- WATER	Water (Streams, River, Well & Groundwater)	Iron	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
66	CHEMICAL- WATER	Water (Streams, River, Well & Groundwater)	Lead	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
67	CHEMICAL- WATER	Water (Streams, River, Well & Groundwater)	Manganese	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
68	CHEMICAL- WATER	Water (Streams, River, Well & Groundwater)	Nickel	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
69	CHEMICAL- WATER	Water (Streams, River, Well & Groundwater)	Zinc	APHA (23rd Ed.) 3125 B, P 3-49 to P 3-58
70	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Alkalinity as CaCO3	APHA 23rd. Ed. 2320- B 2-37
71	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Ammonical Nitrogen	APHA 23rd. Ed. 4500 NH3, F 4-119
72	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Biochemical Oxygen Demand	APHA 23rd Ed. 5210-B, 5-6 & IS 3025 (Part-44)
73	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Calcium	APHA 23rd Ed, 3500-Ca B 3-69
74	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Chemical Oxygen Demand	APHA 23rd Ed. 5220-B 5-18
75	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Chloride	APHA 23rd Ed. 4500 -Cl-B 4-75

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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
76	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Conductivity	APHA 23rd Ed. 2510- B 2-58
77	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Cyanide	APHA 23rd Ed. 4500-CN B 4-41, C 4-44, D 4-45, E 4-46
78	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Fluoride	APHA 23rd. Ed. 4500 B 4-87, D 4-90
79	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Hexavalent Chromium	APHA 23rd. Ed. 3500 -Cr, B 3-71
80	CHEMICAL- WATER	water (Streams, River, Well and Groundwater)	Kjeldahl Nitrogen	APHA 23rd. Ed. 4500- N Org B 4-139
81	CHEMICAL- WATER	Water (Streams, river, Well and Groundwater)	Magnesium	APHA 23rd Ed, 3500- Mg B 3-86
82	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Nitrite Nitrogen	APHA 23rd Ed. 4500- NO2- B,4-124
83	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Oil & Grease	APHA 23rd. Ed. 5520 B 5-42
84	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	pH	APHA 23rd Ed. 4500- H + , B 4-95
85	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Total Dissolved Solids	APHA 23rd, Ed.2540-C 2-69
86	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Total Hardness as CaCO3	APHA 23rd Ed, 2340 C 2-48
87	CHEMICAL- WATER	Water (Streams, River, Well and Groundwater)	Total Suspended Solids	APHA 23rd Ed. 2540 -D 2-70
88	CHEMICAL- WATER	water (Streams, River, Well,and Groundwater)	Dissolved Oxygen	APHA 23rd. Ed. 4500-O C, 4-146 C,