National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL LABORATORY, MEGHALAYA STATE POLLUTION CONTROL BOARD, FORESTS AND ENVIRONMENT DEPARTMENT, GOVERNMENT OF MEGHALAYA, "ARDEN", LUMPYNGNGAD, SHILLONG, EAST KHASI HILLS, MEGHALAYA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 03/05/2022 to 02/05/2024 **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- WATER	Drinking Water	E. Coli	APHA 23rd edition 9221 G(2)
2	BIOLOGICAL- WATER	Drinking Water	Faecal Coliform	APHA 23rd Edition 9221 E
3	BIOLOGICAL- WATER	Drinking Water	Total Coliform	APHA 23rd Edition: 9221 B
4	BIOLOGICAL- WATER	Drinking Water	Total Plate Count	APHA 23rd Edition 9215 C
5	BIOLOGICAL- WATER	Ground Water/Surface Water	E.coli	APHA 23rd Edition 9221 (G)2
6	BIOLOGICAL- WATER	Ground Water/Surface Water	Faecal Coliform	APHA 23rd Edition 9221 E
7	BIOLOGICAL- WATER	Ground Water/Surface Water	Total Coliform	APHA 23rd Edition 9221 B
8	BIOLOGICAL- WATER	Ground Water/Surface Water	Total Plate Count	APHA 23rd Edition 9215 C
9	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Carbon Monoxide	MPCB/CL-SOP/25
10	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Lead	ISC 411, 3rd Edition
11	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nickel	IS 5182 (Part-22)
12	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Oxides as NO2	IS 5182 (Part-6)
13	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone as O3	ISC 411 3rd Edition
14	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate matter as PM10	IS 5182 (Part-23)
15	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate matter as PM2.5	MPCB/CL-SOP/2017-2018/19 Dated 30.05.2017
16	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Oxides as SO2	IS 5182 (Part-2)
17	CHEMICAL- ATMOSPHERIC POLLUTION	Meteorological	Ambient Temperature	MPCB/CL-SOP/2017-2018/20 Dated 30.05.2017
18	CHEMICAL- ATMOSPHERIC POLLUTION	Noise	Ambient Noise Level	IS-9989 (Leq, Lmax, Lmin etc)
19	CHEMICAL- ATMOSPHERIC POLLUTION	Noise	Source Noise Measurement	IS-4954
20	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emissioin	Oxygen	MPCB/CL-SOP/24
21	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Dioxide	MPCB/CL-SOP/24

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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
22	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Monoxide	MPCB/CL-SOP/24
23	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxides of Nitrogen	MPCB/CL-SOP/24
24	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particulate matter	IS 11255 (Part-1)
25	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide	MPCB/CL-SOP/24
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Copper	APHA 23rd Edition, 3111 Cu B (By AAS Method)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Lead	APHA 23rd Edition, 3111 B (By AAS Method)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Acidity	APHA 23rd Edition 2310 B (Titrimetric- Colour Indicator)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Alkalinity	APHA 23rd Edition 2320 B (Titrimetic - Colour Indicator)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonical Nitrogen	APHA 23rd Edition 4500 NH3 D (Ion Selective Electrode Method)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonical Nitrogen	APHA 23rd Edition, 4500 NH3B, NH3C (Distillation followed by Titrimetric method)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Bio Chemical Oxygen Demand as BOD 3 Day at 27° C	IS 3025 (Part-44) Edition 2.1
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Boron	APHA 23rd Edition 4500 B C (Spectrophotometric Method)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Boron	EPA 1311/EPA
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cadmium	APHA 23rd Edition 3111 B (By AAS Method)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cadmium	EPA 1311/EPA
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium	APHA 23rd Edition 3500 Ca B (By AAS Method and Titrimetric method (EDTA))
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand as COD	IS 3025 (Part-58)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride	APHA 23rd Edition, 4500 C1-B (Titrimetric Method)

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Validity 03/05/2022 to 02/05/2024 **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
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chlorine Residual	APHA 23rd Edition, 4500 C1-B (Titrimetric Method)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chromium Hexavalent	APHA 23rd Edition, 3500 Cr B (Spectrophotometric method)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chromium Total	APHA 23rd Edition 3111 B (AAS & Spectrophotometric method)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Colour	APHA 23rd Edition, 2120 B (Visual Comparison method)
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Conductivity	APHA 23rd Edition, 2510 B (Conductivity meter)
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	APHA 23rd Edition, 4500 O C (Modified Winkler Method)
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fixed & Volatile Solids	APHA 23rd Edition, 2540 E (Gravimetric)
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride	APHA 23rd Edition, 4500 F-C (Ion selective electrode method)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Iron	APHA 23rd Edition, 3111 B (By AAS Method)
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Iron as Fe	APHA 23rd Edition, 3500 Fe B (Spectrophotometric method)
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Magnesium as Mg	APHA 23rd Edition, 3500 Mg B (By Calculation of Total Hardness & Calcium)
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Manganese	APHA 23rd Edition, 3111 B (By AAS Method)
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nickel	APHA 23rd Edition, 3111 B
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate Nitrogen	APHA 23rd Edition, 4500 NO3-B (UV-Screen Method Reduction followed by Spectrophotometric Method)
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate Nitrogen	APHA 23rd Edition, NO3-D (Nitrate Electrode Method)
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrite Nitrogen	APHA 23rd Edition, 4500 NO2-B (Spectrophotometric Method)
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil & Grease	APHA 23rd Edition, 5220 B (Gravimetric Method - Solvent Extraction)

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57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	APHA 23rd Edition, 4500 H+B (pH Meter)
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenols	APHA 23rd Edition, 5530 C (Distillation followed by Colorimetric)
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphate	APHA 23rd Edition, 4500 P D (Orthophosphate-pre-treatment followed by Spectrophotometric method)
60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium	APHA 23rd Edition, 3500 K B (By Flame photometer)
61	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium	APHA 23rd Edition, 3500 Na B (By Flame photometer)
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate	APHA 23rd Edition, 4500 SO42- E (Spectrophotometric method)
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphide	APHA 23rd Edition, 4500 H+B
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	APHA 23rd Edition, 2540 C (Filtration, Evaporation & Gravimetric)
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Hardness	APHA 23rd Edition, 2340 C (Titrimetric - EDTA Method)
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Kjeldahl Nitrogen	APHA 23rd Edition, 4500 NH3 B, C, D & 4500 NorgB (Digestion followed by Titrimetric method)
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Solids	APHA 23rd Edition, 2540 B (Gravimetric)
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids	APHA 23rd Edition, 2540 C (Vacuum Filtration (GF/C)
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Turbidity	APHA 23rd Edition, 2130 B (Nephelometric)
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Zinc	APHA 23rd Edition, 3111 B (By AAS Method)
71	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)	Chromium	EPA 1311/EPA
72	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)	Copper	EPA 1311/EPA
73	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)	Iron	EPA 1311/EPA

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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
74	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/SEmi-Solid)	Lead	EPA 1311/EPA
75	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)	Manganese	EPA 1311/EPA
76	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)	Nickel	EPA 1311/EPA
77	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)	Zinc	EPA 1311/EPA
78	CHEMICAL- WATER	Ground Water	Acidity	APHA 23rd Edition, 2310 B (Tritrimetric - Colour Indicator)
79	CHEMICAL- WATER	Ground Water	Ammoniacal Nitrogen	APHA 23rd Edition, 4500 NH3D (Ion selective electrode method)
80	CHEMICAL- WATER	Ground Water	Bio Chemical Demand as BOD 3 day at 27°C	IS 3025 (Part-44)Edition 2.1
81	CHEMICAL- WATER	Ground Water	Boron	APHA 23rd Edition, 4500 B C (Spectrophotometric method)
82	CHEMICAL- WATER	Ground Water	Cadmium	APHA 23rd Edition, 3111 B (By AAS Method)
83	CHEMICAL- WATER	Ground Water	Calcium	APHA 23rd Edition, 3500 Ca B (Titrimetric method (EDTA)
84	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand as COD	IS 3025 (Part-58)
85	CHEMICAL- WATER	Ground Water	Chloride	APHA 23rd Edition, 4500 C1 B (Titrimetric Method)
86	CHEMICAL- WATER	Ground Water	Chlorine Residual	APHA 23rd Edition, 4500 C1 B (Titrimetric Method)
87	CHEMICAL- WATER	Ground Water	Chromium Hexavalent	APHA 23rd Edition, 3500 Cr B (Spectrophotometric method)
88	CHEMICAL- WATER	Ground Water	Chromium Total	APHA 23rd Edition, 3111 B (AAS & Spectrophotometric method)
89	CHEMICAL- WATER	Ground Water	Colour	APHA 23rd Edition, 2120 B (Visual Comparison method)
90	CHEMICAL- WATER	Ground Water	Conductivity	APHA 23rd Edition, 2510 B (Conductivity Meter)
91	CHEMICAL- WATER	Ground Water	Copper	APHA 23rd Edition, 3111 Cu B (AAS Method)

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92	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	APHA 23rd Edition, 4500 O C (Modified Winkler Method)
93	CHEMICAL- WATER	Ground Water	Fixed & Volatile Solids	APHA 23rd Edition, 2540 E (Gravimetric)
94	CHEMICAL- WATER	Ground Water	Fluoride	APHA 23rd Edition, 4500 F-D APHA 23rd Edition, 4500 F-C (Ion selective electrode method)
95	CHEMICAL- WATER	Ground Water	Iron	APHA 23rd Edition, 3500 Fe B (By AAS Method/Spectrophotometric method)
96	CHEMICAL- WATER	Ground Water	Lead	APHA 23rd Edition, 3111 B (By AAS Method)
97	CHEMICAL- WATER	Ground Water	Magnesium	APHA 23rd Edition, 3500 Mg B (By Calculation of Total Hardness & Calcium)
98	CHEMICAL- WATER	Ground Water	Manganese	APHA 23rd Edition, 3111 B (By AAS Method)
99	CHEMICAL- WATER	Ground Water	Nickel	APHA 23rd Edition, 3111 B
100	CHEMICAL- WATER	Ground Water	Nitrate Nitrogen	APHA 23rd Edition, 4500 NO3- D (Ion selective electrode method)
101	CHEMICAL- WATER	Ground Water	Nitrite Nitrogen	APHA 23rd Edition, 4500 NO2 B (Spectrophotometric Method)
102	CHEMICAL- WATER	Ground Water	Oil & Grease	APHA 23rd Edition, 5220 B (Gravimetric Method (Solvent Extraction)
103	CHEMICAL- WATER	Ground Water	pH	APHA 23rd Edition, 4500 H+B
104	CHEMICAL- WATER	Ground Water	Phenols	APHA 23rd Edition, 5530 C (Distillation followed by Colorimetric)
105	CHEMICAL- WATER	Ground Water	Phosphate	APHA 23rd Edition, 4500 P D (Orthophosphate-pre-treatment followed by Spectrophotometric method)
106	CHEMICAL- WATER	Ground Water	Potassium	APHA 23rd Edition, 3500 K B (By Flame photometer)
107	CHEMICAL- WATER	Ground Water	Sodium	APHA 23rd Edition, 3500 Na B (By Flame photometer)

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108	CHEMICAL- WATER	Ground Water	Sulphate	APHA 23rd Edition, 4500 SO4 2-E (Spectrophotometric method/gravimetric method)
109	CHEMICAL- WATER	Ground Water	Sulphide	APHA 23rd Edition, 4500 S2-B
110	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA 23rd Edition, 2540 C (Filtration, Evaporation & Gravimetric)
111	CHEMICAL- WATER	Ground Water	Total Hardness	APHA 23rd Edition, 2340 C (Titrimetric (EDTA Method)
112	CHEMICAL- WATER	Ground Water	Total Kjeldahl Nitrogen	APHA 23rd Edition, 4500 NH3 B, C, D, & 4500 Norg B (Digestion followed by Titrimetric method)
113	CHEMICAL- WATER	Ground Water	Total Solids	APHA 23rd Edition, 2540 B (Gravimetric)
114	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA 23rd Edition, 2540 C (Vacuum Filtration (GF/C)
115	CHEMICAL- WATER	Ground Water	Turbidity	APHA 22nd Edition, 2130 B (Nephelometric)
116	CHEMICAL- WATER	Ground Water	Zinc	APHA 23rd Edition, 3111 B (By AAS Method)
117	CHEMICAL- WATER	Packaged Drinking Water	Alkalinity	APHA 23rd Edition, 4500 H+B (Titrimetric (Colour & indicator)
118	CHEMICAL- WATER	Packaged Drinking Water	Ammonical Nitrogen	APHA 23rd Edition 4500 NH3 B & NG3 C (Distillation followed by Titrimetric Method)
119	CHEMICAL- WATER	Packaged Drinking Water	Cadmium	APHA 23rd Edition, 3111 B (By AAS Method)
120	CHEMICAL- WATER	Packaged Drinking Water	Calcium	APHA 23rd Edition, 3500 Ca B (Titrimetric method (EDTA)
121	CHEMICAL- WATER	Packaged Drinking Water	Chloride	APHA 23rd Edition, 4500 H+B (Titrimetric method)
122	CHEMICAL- WATER	Packaged Drinking Water	Chromium Total	APHA 23rd Edition, 3111 B (AAS & Spectrophotometric method)
123	CHEMICAL- WATER	Packaged Drinking Water	Conductivity	APHA 23rd Edition, 2510 B
124	CHEMICAL- WATER	Packaged Drinking Water	Copper	APHA 22nd Edition, 3111 Cu B (By AAS Method)

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125	CHEMICAL- WATER	Packaged Drinking Water	Fluoride	APHA 23rd Edition, 4500 F-C (Ion selective electrode method)
126	CHEMICAL- WATER	Packaged Drinking Water	Iron	APHA 23rd Edition, 3500 Fe B APHA 23rd Edition, 3111 B (By AAS Method/Spectrophotometric method)
127	CHEMICAL- WATER	Packaged Drinking Water	Lead	APHA 23rd Edition, 3111 B (By AAS Method)
128	CHEMICAL- WATER	Packaged Drinking Water	Manganese	APHA 23rd Edition, 3111 B (By AAS Method)
129	CHEMICAL- WATER	Packaged Drinking Water	Nickel	APHA 23rd Edition, 3111 B
130	CHEMICAL- WATER	Packaged Drinking Water	Nitrate Nitrogen	APHA 23rd Edition, 4500 NO3-D (Ion selective electrode method)
131	CHEMICAL- WATER	Packaged Drinking Water	Nitrite Nitrogen	APHA 23rd Edition, 4500 NO2B (Spectrophotometric method)
132	CHEMICAL- WATER	Packaged Drinking Water	pH	APHA 23rd Edition, 4500 H+B
133	CHEMICAL- WATER	Packaged Drinking Water	Phosphate	APHA 23rd Edition, 4500 P D (Orthophosphate-pre-treatment followed by Spectrophotometric method)
134	CHEMICAL- WATER	Packaged Drinking Water	Potassium	APHA 23rd Edition, 3500 K B (By Flame photometer)
135	CHEMICAL- WATER	Packaged Drinking Water	Silica	APHA 23rd Edition, 4500 SiO2 C (Spectrophotometric method)
136	CHEMICAL- WATER	Packaged Drinking Water	Sodium	APHA 23rd Edition, 3500 Na B (By Flame photometer)
137	CHEMICAL- WATER	Packaged Drinking Water	Sulphate	APHA 23rd Edition, 4500 SO42-E (Spectrophotometric method)
138	CHEMICAL- WATER	Packaged Drinking Water	Total Hardness	APHA 23rd Edition, 2340 C (Titrimetric (EDTA)
139	CHEMICAL- WATER	Packaged Drinking Water	Zinc	APHA 23rd Edition, 3111 B (By AAS Method)
140	CHEMICAL- WATER	Surface Water	Acidity	APHA 23rd Edition 2310 B (Titrimetric (Colour Indicator)
141	CHEMICAL- WATER	Surface Water	Bio Chemical Demand as BOD 3 day at 27°C	IS 3025 (Part-44)

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142	CHEMICAL- WATER	Surface Water	Boron	APHA 23rd Edition, 4500 B C (Spectrophotometric method)
143	CHEMICAL- WATER	Surface Water	Cadmium	APHA 23rd Edition, 3111 B (By AAS Method)
144	CHEMICAL- WATER	Surface Water	Calcium	APHA 23rd Edition, 3500 Ca B (Titrimetric method (EDTA)
145	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand as COD	IS 3025 (Part-58)
146	CHEMICAL- WATER	Surface Water	Chloride	APHA 23rd Edition, 4500 C1 B (Titrimetric Method)
147	CHEMICAL- WATER	Surface Water	Chlorine Residual	APHA 23rd Edition, 4500 C1 B (Titrimetric Method)
148	CHEMICAL- WATER	Surface Water	Chromium Hexavalent	APHA 23rd Edition, 3500 Cr B (Spectrophotometric method)
149	CHEMICAL- WATER	Surface Water	Chromium Total	APHA 23rd Edition, 3111 B (AAS & Spectrophotometric method)
150	CHEMICAL- WATER	Surface Water	Colour	APHA 23rd Edition, 2120 B (Visual Comparison method)
151	CHEMICAL- WATER	Surface Water	Conductivity	APHA 23rd Edition, 2510 B
152	CHEMICAL- WATER	Surface Water	Copper	APHA 23rd Edition, 3111 Cu B (By AAS Method)
153	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	APHA 23rd Edition, 4500 O C (Modified Winkler Method)
154	CHEMICAL- WATER	Surface Water	Fixed & Volatile Solids	APHA 23rd Edition, 2540 E (Gravimetric)
155	CHEMICAL- WATER	Surface Water	Fluoride	APHA 23rd Edition, 4500 F-D APHA 23rd Edition, 4500 F-C (Ion selective electrode method)
156	CHEMICAL- WATER	Surface Water	Iron	APHA 23rd Edition, 3500 Fe B (By AAS Method/Spectrophotometric method)
157	CHEMICAL- WATER	Surface Water	Lead	APHA 23rd Edition, 3111 B (By AAS Method)
158	CHEMICAL- WATER	Surface Water	Magnesium	APHA 23rd Edition, 3500 Mg B (By Calculation of Total Hardness & Calcium)

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL LABORATORY, MEGHALAYA STATE POLLUTION CONTROL BOARD, FORESTS AND ENVIRONMENT DEPARTMENT, GOVERNMENT OF MEGHALAYA, "ARDEN", LUMPYNGNGAD, SHILLONG, EAST KHASI HILLS, MEGHALAYA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 03/05/2022 to 02/05/2024 **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
159	CHEMICAL- WATER	Surface Water	Manganese as Mn	By AAS Method APHA 23rd Edition, 3111 B:
160	CHEMICAL- WATER	Surface Water	Nickel as Ni	APHA 23rd Edition, 3111 B:
161	CHEMICAL- WATER	Surface Water	Nitrate Nitrogen	APHA 23rd Edition, 4500 NO3-D (Ion selective electrode method)
162	CHEMICAL- WATER	Surface Water	Nitrite Nitrogen	APHA 23rd Edition, 4500 NO2 B (Spectrophotometric Method)
163	CHEMICAL- WATER	Surface Water	Oil & Grease	APHA 23rd Edition, 5220 B (Gravimetric Method (Solvent Extraction)
164	CHEMICAL- WATER	Surface Water	pH	APHA 23rd Edition, 4500 H+B
165	CHEMICAL- WATER	Surface Water	Phenols	APHA 23rd Edition, 5530 C (Distillation followed by Colorimetric)
166	CHEMICAL- WATER	Surface Water	Phosphate	APHA 23rd Edition, 4500 P D (Orthophosphate-pre-treatment followed by Spectrophotometric method)
167	CHEMICAL- WATER	Surface Water	Potassium	APHA 23rd Edition, 3500 K B (By Flame photometer)
168	CHEMICAL- WATER	Surface Water	Sodium	APHA 23rd Edition, 3500 Na B (By Flame photometer)
169	CHEMICAL- WATER	Surface Water	Sulphate	APHA 23rd Edition, 4500 SO4 2-E (Spectrophotometric method/gravimetric method)
170	CHEMICAL- WATER	Surface Water	Sulphide	APHA 23rd Edition, 4500 S2-B
171	CHEMICAL- WATER	Surface Water	Total Hardness	APHA 23rd Edition, 2340 C (Titrimetric (EDTA Method)
172	CHEMICAL- WATER	Surface Water	Total Kjeldahl Nitrogen	APHA 23rd Edition, 4500 NH3 B, C, D, & 4500 Norg B (Digestion followed by Titrimetric method)
173	CHEMICAL- WATER	Surface Water	Total Solids	APHA 23rd Edition, 2540 B (Gravimetric)
174	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 23rd Edition, 2540 C (Vacuum Filtration (GF/C)
175	CHEMICAL- WATER	Surface Water	Totals Dissolved Solids	APHA 23rd Edition, 2540 C (Filtration, Evaporation & Gravimetric)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-4054	**Page No**	11 of 11
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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
176	CHEMICAL- WATER	Surface Water	Turbidity	APHA 22nd Edition, 2130 B (Nephelometric)
177	CHEMICAL- WATER	Surface Water	Zinc	APHA 23rd Edition, 3111 B (By AAS Method)

NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.