National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	GUJARAT ENVIRONMENT MANAGEMENT INSTITUTE'S LABORATORY, PLOT NO. B-64, G.I.D.C. ESTATE, SECTOR-25, GANDHINAGAR, GUJARAT, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5157
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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	BIOLOGICAL- WATER	Drinking Water	Detection and enumeration of coliform bacteria	IS 15185
2	BIOLOGICAL- WATER	Drinking Water	Detection and enumeration of E.coli	IS 15185
3	BIOLOGICAL- WATER	Drinking Water	Faecal Coliform	IS 1622
4	BIOLOGICAL- WATER	Drinking Water	Standard Plate Count	IS 1622
5	BIOLOGICAL- WATER	Drinking Water	Test for Faecal Streptococci	IS 15186
6	BIOLOGICAL- WATER	Ground Water / Surface Water	Test for Faecal Streptococci	IS 1622
7	BIOLOGICAL- WATER	Ground Water/ Surface Water	Detection and enumeration of coliform bacteria	IS 15185
8	BIOLOGICAL- WATER	Ground Water/ Surface Water	Total Coliform	IS 1622
9	BIOLOGICAL- WATER	Ground Water/Surface Water	Detection and enumeration of E.coli	IS 15185
10	BIOLOGICAL- WATER	Ground Water/Surface Water	E.coli	IS 1622
11	BIOLOGICAL- WATER	Ground Water/Surface Water	Faecal Coliform	IS 1622
12	BIOLOGICAL- WATER	Ground Water/Surface Water	Standard Plate Count	IS 1622
13	BIOLOGICAL- WATER	Ground Water/Surface Water	Test for Faecal Streptococci	IS 15186
14	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ammonia	IS 5182 (Part 25)
15	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Arsenic as As	GEMI/SOP/AAQM/09 (Analysis by ICP-OES)
16	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Benzene	IS 5182 (Part 11) Activated charcoal tubes, desorbed by carbon disulphide method
17	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Benzo-a-Pyrene (Particulate Phase Only)	IS 5182 (Part 12)
18	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Carbon Monoxide	GEMI/SOP/AAQM/08 (Analysis by ICP-OES)
19	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Lead as Pb	GEMI/SOP/AAQM/09 (Analysis by ICP-OES)
20	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nickel as Ni	IS 5182 (Part 26) ICP OES Modified method
21	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Dioxide (NO2)	IS 5182 (Part 6)

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22	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone	IS 5182 (Part 9)
23	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM10	IS 5182 (Part 23)
24	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM2.5	IS 5182 (Part 24)
25	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO2)	IS 5182 (Part 2)
26	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Ambient Noise Level Leq dB (A)	IS 9989
27	CHEMICAL- ATMOSPHERIC POLLUTION	Source Noise	Source Noise Level - DG Set	IS 8528 (Part 10)
28	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Ammonia	IS 11255 (Part 6)
29	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Dioxide	USEPA Method 3A
30	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Monoxide	USEPA Method 10
31	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxide of Nitrogen (NO2)	USEPA Method 7E
32	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxygen	USEPA Method 3A
33	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter	IS 11255 (Part 1)
34	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide	USEPA Method 6C
35	CHEMICAL- POLLUTION & ENVIRONMENT	Bioassay Test	Bioassay Test	GEMI/SOP/CHEM/16 (Issue no. 02, Issue date 18.12.2014)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Arsenic as As	EPA METHOD 3051A Revision-1
37	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Boron	Methods Manual Soil Testing in India 17b
38	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Copper	Methods Manual Soil Testing in India 17a
39	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Iron	Methods Manual Soil Testing in India 17a
40	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Manganese	Methods Manual Soil Testing in India 17a

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41	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Molybdenum	Methods Manual Soil Testing in India 17c
42	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Nitrogen	Methods Manual Soil Testing in India Mineralizable Nitrogen (Subbia and Asija)11
43	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Phosphorus	Practical Manual Chemical Analysis of Soil and Plant Samples, ICAR-Indian Institute of Pulses Research
44	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Potassium	Methods Manual Soil Testing in India 14
45	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Zinc	Methods Manual Soil Testing in India 17a
46	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Bulk Density	ASTM D7263
47	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Cadmium as Cd	EPA METHOD 3051A Revision-1
48	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Chromium as Cr	EPA METHOD 3051A Revision-1
49	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Cobalt as Co	EPA METHOD 3051A Revision-1
50	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Conductivity (Soil: Water Ratio of 1:2) @ 25°C	IS 14767
51	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Exchangeable Calcium	Methods Manual Soil Testing in India Versenate (EDTA) method 16
52	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Exchangeable Magnesium	Methods Manual Soil Testing in India Versenate (EDTA) method 16
53	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Lead as Pb	EPA METHOD 3051A Revision-1
54	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Nickel as Ni	EPA METHOD 3051A Revision-1
55	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Organic Carbon	Methods Manual Soil Testing in India Volumetric method (Walkley and Black) 09
56	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Organic Matter	IS 2720 (Part XXII)

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57	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Organic Matter	Methods Manual Soil Testing in India Volumetric method (Walkley and Black) 09
58	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	pH (Soil: Water Ratio of 1:2.5 @ 25°C)	IS 2720 (Part 26)
59	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Porosity	ASTM D7263
60	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Total Kjeldahl Nitrogen	Methods Manual Soil Testing in India (Kjeldahl Method) 10
61	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Water Content (Water Moisture)	IS 2720 (Part 2)
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Chemical Oxygen Demand (COD)	GEMI/SOP/CHEM/53
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Phenol	APHA 23rd Edition 5530 B+D
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Residual Chlorine	APHA 23rd Edition 4500 Cl B
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphorus as PO4	APHA 23rd Edition 4500-P D
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphorus as PO4	IS 3025 (Part 31)
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Acidity as CaCO3	APHA 23rd Edition 2310 B
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Alkalinity as CaCO3	APHA 23rd Edition 2320 B
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonia as NH3	IS 3025 (Part 34)
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonia as NH3	APHA 23rd Edition 4500 NH3 B & C
71	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Anion Surfactant (MBAS)	APHA 23rd Edition 5540 C
72	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Bi-Carbonate	APHA 23rd Edition 2320 B
73	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Bio assay Test	EMI/SOP/CHEM/16 (Issue no. 02, Issue date 18.12.2014)
74	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44)

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75	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium as CaCO3	APHA 23rd Edition 3500 Ca B
76	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium as CaCO3	IS 3025 (Part 40)
77	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Carbon Dioxide	APHA 23rd Edition 4500 CO2 C
78	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Carbonate	APHA 23rd Edition 2320 B
79	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)
80	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand (COD)	APHA 23rd Edition 5220 B
81	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride as Cl	APHA 23rd Edition 4500 Cl- B
82	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride as Cl	IS 3025 (Part 32)
83	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chromium Hexavalent (Cr+6)	APHA 23rd Edition 3500 Cr B
84	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Color	APHA 23rd Edition 2120 B & C
85	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Conductivity	IS 3025 (Part 14)
86	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Conductivity	APHA 23rd Edition 2510 B
87	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cyanide	APHA 23rd Edition 4500 CN- E
88	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen (DO)	APHA 23rd Edition 4500 O C
89	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen (DO)	IS 3025 (Part 38)
90	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fixed Solids	APHA 23rd Edition 2540 E
91	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride as F	APHA 23rd Edition 4500 F D
92	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Magnesium as CaCO3	APHA 23rd Edition 3500 Mg B
93	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate as NO3	APHA 23rd Edition 4500 NO3 B

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94	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrite as NO2	APHA 23rd Edition 4500 NO2 B
95	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Odour	IS 3025 (Part 5)
96	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil & Grease	APHA 23rd Edition 5520 D
97	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	IS 3025 (Part 11)
98	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	APHA 23rd Edition 4500 H+ B
99	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Settleable Solids	APHA 23rd Edition 2540 F
100	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Silica as SiO2	APHA 23rd Edition 4500 C
101	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Silica as SiO2	IS 3025 (Part 35)
102	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium as Na	APHA 23rd Edition ICP Method 3120 B
103	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate as SO4	APHA 23rd Edition 4500 SO4-2 E
104	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate as SO4	IS 3025 (Part 24)
105	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphide as S-2	APHA 23rd Edition 4500 S-2 F
106	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature as °C	APHA 23rd Edition 2550 B
107	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Arsenic as As	APHA 23rd Edition 3120 B ICP Method
108	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Chromium as Cr	APHA 23rd Edition 3120 B ICP Method
109	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids (TDS)	IS 3025 (Part 16)
110	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids (TDS)	APHA 23rd Edition 2540 C
111	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
112	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Hardness as CaCO3	IS 3025 (Part 21)

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113	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Kjeldahl Nitrogen as N (TKN)	APHA 23rd Edition 4500 B C
114	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Phosphorus as PO4	APHA 23rd Edition 4500 P B&D
115	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Phosphorus as PO4	IS 3025 (Part 31/Section 1)
116	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Solids (TS)	IS 3025 (Part 15)
117	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Solids (TS)	APHA 23rd Edition 2540 B
118	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids (TSS)	APHA 23rd Edition 2540 D
119	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids (TSS)	IS 3025 (Part 17)
120	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Turbidity	APHA 23rd Edition 2130 B
121	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Turbidity	IS 3025 (Part 10)
122	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Volatile Solids	APHA 23rd Edition 2540 E
123	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Zinc as Zn	APHA 23rd Edition 3120 B ICP Method
124	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Aluminium as Al	APHA 23rd Edition 3120 B ICP Method
125	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Arsenic as As	APHA 23rd Edition 3120 B ICP Method
126	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Barium as Ba	APHA 23rd Edition 3120 B ICP Method
127	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Boron as B	APHA 23rd Edition 3120 B ICP Method
128	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Cadmium as Cd	APHA 23rd Edition 3120 B ICP Method
129	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Calcium as Ca	APHA 23rd Edition 3120 B ICP Method
130	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Chromium as Cr	APHA 23rd Edition 3120 B ICP Method
131	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Cobalt as Co	APHA 23rd Edition 3120 B

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132	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Copper as Cu	APHA 23rd Edition 3120 B ICP Method
133	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Iron as Fe	APHA 23rd Edition 3120 B ICP Method
134	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Lead as Pb	APHA 23rd Edition 3120 B ICP Method
135	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Magnesium as Mg	APHA 23rd Edition 3120 B ICP Method
136	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Manganese as Mn	APHA 23rd Edition 3120 B ICP Method
137	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Mercury as Hg	EPA Method 200.7
138	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Molybdenum as Mo	APHA 23rd Edition 3120 B ICP Method
139	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Nickel as Ni	APHA 23rd Edition 3120 B ICP Method
140	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Potassium as K	APHA 23rd Edition 3120 B ICP Method
141	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Potassium as K	APHA 23rd Edition 3500 K B
142	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Selenium as Se	APHA 23rd Edition 3120 B ICP Method
143	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Silver as Ag	APHA 23rd Edition 3120 B ICP Method
144	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Sodium Absorption Ratio (SAR)	IS 11624
145	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Sodium as Na	APHA 23rd Edition 3500 Na B
146	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Aluminium as Al	APHA 23rd Edition 3120 B ICP Method
147	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Arsenic as As	APHA 23rd Edition 3120 B ICP Method
148	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Barium as Ba	APHA 23rd Edition 3120 B ICP Method
149	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Boron as B	APHA 23rd Edition 3120 B ICP Method
150	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Cadmium as Cd	APHA 23rd Edition 3120 B ICP Method

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151	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Calcium as Ca	APHA 23rd Edition 3120 B ICP Method
152	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Chromium as Cr	APHA 23rd Edition 3120 B ICP Method
153	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Cobalt as Co	APHA 23rd Edition 3120 B ICP Method
154	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Copper as Cu	APHA 23rd Edition 3120 B ICP Method
155	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Iron as Fe	APHA 23rd Edition 3120 B ICP Method
156	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Lead as Pb	APHA 23rd Edition 3120 B ICP Method
157	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Magnesium as Mg	APHA 23rd Edition 3120 B ICP Method
158	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Manganese as Mn	APHA 23rd Edition 3120 B ICP Method
159	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Mercury as Hg	EPA Method 200.7
160	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Molybdenum as Mo	APHA 23rd Edition 3120 B ICP Method
161	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Nickel as Ni	APHA 23rd Edition 3120 B ICP Method
162	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Potassium as K	APHA 23rd Edition 3120 B ICP Method
163	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Potassium as K	APHA 23rd Edition 3500 K B
164	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Selenium as Se	APHA 23rd Edition 3120 B ICP Method
165	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Silver as Ag	APHA 23rd Edition 3120 B ICP Method
166	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Sodium Absorption Ratio (SAR)	IS 11624
167	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Sodium as Na	APHA 23rd Edition 3120 B ICP Method
168	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Sodium as Na	APHA 23rd Edition 3500 Na B
169	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Total Arsenic as As	APHA 23rd Edition 3120 B ICP Method

SCOPE OF ACCREDITATION

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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
170	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Total Chromium as Cr	APHA 23rd Edition 3120 B ICP Method
171	CHEMICAL- RESIDUES IN WATER	Drinking/Ground/Surface Water	Zinc as Zn	APHA 23rd Edition 3120 B ICP Method
172	CHEMICAL- WATER	Drinking Water	Alkalinity as CaCO3	IS 3025 (Part 23)
173	CHEMICAL- WATER	Drinking Water	Ammonia as NH3	IS 3025 (Part 34)
174	CHEMICAL- WATER	Drinking Water	Anionic Surfactant (MBAS)	APHA 23rd Edition 5540 C
175	CHEMICAL- WATER	Drinking Water	Bi-Carbonate	APHA 23rd Edition 2320 B
176	CHEMICAL- WATER	Drinking Water	Bio assay Test	GEMI/SOP/CHEM/16 (Issue no. 02, Issue date 18.12.2014)
177	CHEMICAL- WATER	Drinking Water	Calcium as CaCO3	APHA 23rd Edition 3500 Ca B
178	CHEMICAL- WATER	Drinking Water	Calcium as CaCO3	IS 3025 (Part 40)
179	CHEMICAL- WATER	Drinking Water	Carbonate	APHA 23rd Edition 2320 B
180	CHEMICAL- WATER	Drinking Water	Chloride as Cl-	APHA 23rd Edition 4500 Cl- B
181	CHEMICAL- WATER	Drinking Water	Chloride as Cl-	IS 3025 (Part 32)
182	CHEMICAL- WATER	Drinking Water	Chromium Hexavalent (Cr+6)	APHA 23rd Edition 3500 Cr B
183	CHEMICAL- WATER	Drinking Water	Color	APHA 23rd Edition 2120 B
184	CHEMICAL- WATER	Drinking Water	Color	IS 3025 (Part 4)
185	CHEMICAL- WATER	Drinking Water	Conductivity	APHA 23rd Edition 2510 B
186	CHEMICAL- WATER	Drinking Water	Cyanide	APHA 23rd Edition 4500 CN E
187	CHEMICAL- WATER	Drinking Water	Fluoride as F	APHA 23rd Edition 4500 F D
188	CHEMICAL- WATER	Drinking Water	Magnesium as CaCO3	APHA 23rd Edition 3500 Mg B
189	CHEMICAL- WATER	Drinking Water	Mineral Oil	IS 3025 (Part 39)
190	CHEMICAL- WATER	Drinking Water	Mineral Oil	APHA 23rd Edition 5520 C
191	CHEMICAL- WATER	Drinking Water	Nitrate as NO3	APHA 23rd Edition 4500 NO3 B
192	CHEMICAL- WATER	Drinking Water	Nitrite as NO2	APHA 23rd Edition 4500 NO2 B
193	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5)
194	CHEMICAL- WATER	Drinking Water	Oil & Grease	APHA 23rd Edition 5520 D
195	CHEMICAL- WATER	Drinking Water	pH	APHA 23rd Edition 4500 H+ B
196	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11)
197	CHEMICAL- WATER	Drinking Water	Phenol	APHA 23rd Edition 5530 B+D
198	CHEMICAL- WATER	Drinking Water	Phosphorus as PO4	APHA 23rd Edition 4500 P

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199	CHEMICAL- WATER	Drinking Water	Silica as SiO2	APHA 23rd Edition 4500 C
200	CHEMICAL- WATER	Drinking Water	Silica as SiO2	IS 3025 (Part 35)
201	CHEMICAL- WATER	Drinking Water	Sulphate as SO4	APHA 23rd Edition 4500 SO4-2 E
202	CHEMICAL- WATER	Drinking Water	Sulphate as SO4	IS 3025 (Part 24)
203	CHEMICAL- WATER	Drinking Water	Sulphide as S-2	APHA 23rd Edition 4500 S-2 F
204	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (Part 8)
205	CHEMICAL- WATER	Drinking Water	Temperature as °C	APHA 23rd Edition 2550 B
206	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	APHA 23rd Edition 2320 B
207	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	IS 3025 (Part 23)
208	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids (TDS)	IS 3025 (Part 16)
209	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids (TDS)	APHA 23rd Edition 2540 C
210	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	IS 3025 (Part 21)
211	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
212	CHEMICAL- WATER	Drinking Water	Total Kjeldahl Nitrogen as N (TKN)	APHA 23rd Edition 4500 B C
213	CHEMICAL- WATER	Drinking Water	Total Phosphorus	APHA 23rd Edition 4500 P B&D
214	CHEMICAL- WATER	Drinking Water	Total Phosphorus as PO4	IS 3025 (Part 31/Section 1)
215	CHEMICAL- WATER	Drinking Water	Total Residual Chlorine	IS 3025 (Part 26)
216	CHEMICAL- WATER	Drinking Water	Total Residual Chlorine	APHA 23rd Edition 4500 Cl
217	CHEMICAL- WATER	Drinking Water	Total Residual Chlorine	APHA 23rd Edition 4500-Cl B
218	CHEMICAL- WATER	Drinking Water	Total Solids (TS)	IS 3025 (Part 15)
219	CHEMICAL- WATER	Drinking Water	Total Solids (TS)	APHA 23rd Edition 2540 B
220	CHEMICAL- WATER	Drinking Water	Total Suspended Solids (TSS)	IS 3025 (Part 17)
221	CHEMICAL- WATER	Drinking Water	Total Suspended Solids (TSS)	APHA 23rd Edition 2540 D
222	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
223	CHEMICAL- WATER	Drinking Water	Turbidity	APHA 23rd Edition 2130 B
224	CHEMICAL- WATER	Ground Water	Acidity as CaCO3	APHA 23rd Edition 2310 B
225	CHEMICAL- WATER	Ground Water	Alkalinity as CaCO3	IS 3025 (Part 23)
226	CHEMICAL- WATER	Ground Water	Alkalinity as CaCO3	APHA 23rd Edition 2320 B
227	CHEMICAL- WATER	Ground Water	Ammonia as NH3	APHA 23rd Edition 4500 NH3 B&C

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228	CHEMICAL- WATER	Ground Water	Ammonia as NH3	IS 3025 (Part 34)
229	CHEMICAL- WATER	Ground Water	Anionic Surfactant (MBAS)	APHA 23rd Edition 5540 C
230	CHEMICAL- WATER	Ground Water	Bi-Carbonate	APHA 23rd Edition 2320 B
231	CHEMICAL- WATER	Ground Water	Bio assay Test	GEMI/SOP/CHEM/16 (Issue no. 02, Issue date 18.12.2014)
232	CHEMICAL- WATER	Ground Water	Biochemical Oxygen Demand	IS 3025 (Part 44)
233	CHEMICAL- WATER	Ground Water	Calcium as CaCO3	APHA 23rd Edition 3500 Ca B
234	CHEMICAL- WATER	Ground Water	Carbon Dioxide	APHA 23rd Edition 4500 CO2 C
235	CHEMICAL- WATER	Ground Water	Carbonate	APHA 23rd Edition 2320 B
236	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand	IS 3025 (Part 58)
237	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand	APHA 23rd Edition 5220 B
238	CHEMICAL- WATER	Ground Water	Chloride	APHA 23rd Edition 4500 Cl B
239	CHEMICAL- WATER	Ground Water	Chloride	IS 3025 (Part 32)
240	CHEMICAL- WATER	Ground Water	Chromium Hexavalent (Cr+6)	APHA 23rd Edition 3500 Cr B
241	CHEMICAL- WATER	Ground Water	Color	IS 3025 (Part 4)
242	CHEMICAL- WATER	Ground Water	Color	APHA 23rd Edition 2120 B
243	CHEMICAL- WATER	Ground Water	Conductivity	IS 3025 (Part 14)
244	CHEMICAL- WATER	Ground Water	Conductivity	APHA 23rd Edition 2510 B
245	CHEMICAL- WATER	Ground Water	Cyanide	APHA 23rd Edition 4500 CN E
246	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	IS 3025 (Part 38)
247	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	APHA 23rd Edition 4500 O C
248	CHEMICAL- WATER	Ground Water	Fluoride as F	APHA 23rd Edition 4500 F D
249	CHEMICAL- WATER	Ground Water	Magnesium as CaCO3	APHA 23rd Edition 3500 Mg B
250	CHEMICAL- WATER	Ground Water	Mineral Oil	IS 3025 (Part 39)
251	CHEMICAL- WATER	Ground Water	Mineral Oil	APHA 23rd Edition 5520 C
252	CHEMICAL- WATER	Ground Water	Nitrate as NO3	APHA 23rd Edition 4500 NO3 B
253	CHEMICAL- WATER	Ground Water	Nitrite as NO2	APHA 23rd Edition 4500 NO2 B
254	CHEMICAL- WATER	Ground Water	Odour	IS 3025 (Part 5)
255	CHEMICAL- WATER	Ground Water	Oil & Grease	APHA 23rd Edition 5520 D
256	CHEMICAL- WATER	Ground Water	pH	APHA 23rd Edition 4500 H+ B
257	CHEMICAL- WATER	Ground Water	pH	IS 3025 (Part 11)

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258	CHEMICAL- WATER	Ground Water	Phenol	APHA 23rd Edition 5530 B+D
259	CHEMICAL- WATER	Ground Water	Phosphorus	APHA 23rd Edition 4500 P D
260	CHEMICAL- WATER	Ground Water	Silica as SiO2	APHA 23rd Edition 4500 C
261	CHEMICAL- WATER	Ground Water	Silica as SiO2	IS 3025 (Part 35)
262	CHEMICAL- WATER	Ground Water	Sodium Absorption Ration (SAR)	IS 11624
263	CHEMICAL- WATER	Ground Water	Sulphate as SO4	IS 3025 (Part 24)
264	CHEMICAL- WATER	Ground Water	Sulphate as SO4	APHA 23rd Edition 4500 SO4-2 E
265	CHEMICAL- WATER	Ground Water	Sulphide as S-2	APHA 23rd Edition 4500 S-2 F
266	CHEMICAL- WATER	Ground Water	Temperature as °C	APHA 23rd Edition 2550 B
267	CHEMICAL- WATER	Ground Water	Total Alkalinity as CaCO3	APHA 23rd Edition 2320 B
268	CHEMICAL- WATER	Ground Water	Total Alkalinity as CaCO3	IS 3025 (Part 23)
269	CHEMICAL- WATER	Ground Water	Total Chlorine Residual	APHA 23rd Edition 4500 Cl B
270	CHEMICAL- WATER	Ground Water	Total Chlorine Residual	IS 3025 (Part 26)
271	CHEMICAL- WATER	Ground Water	Total Dissolved Solids (TDS)	APHA 23rd Edition 2540 C
272	CHEMICAL- WATER	Ground Water	Total Dissolved Solids (TDS)	IS 3025 (Part 16)
273	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
274	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	IS 3025 (Part 21)
275	CHEMICAL- WATER	Ground Water	Total Kjeldahl Nitrogen as N (TKN)	APHA 23rd Edition 4500 B C
276	CHEMICAL- WATER	Ground Water	Total Phosphorus as PO4	IS 3025 (Part 31)
277	CHEMICAL- WATER	Ground Water	Total Phosphorus as PO4	APHA 23rd Edition 4500 P B&D
278	CHEMICAL- WATER	Ground Water	Total Solids (TS)	IS 3025 (Part 15)
279	CHEMICAL- WATER	Ground Water	Total Solids (TS)	APHA 23rd Edition 2540 B
280	CHEMICAL- WATER	Ground Water	Total Suspended Solids (TSS)	IS 3025 (Part 17)
281	CHEMICAL- WATER	Ground Water	Total Suspended Solids (TSS)	APHA 23rd Edition 2540 D
282	CHEMICAL- WATER	Ground Water	Turbidity	APHA 23rd Edition 2130 B
283	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10)
284	CHEMICAL- WATER	Surface Water	Acidity as CaCO3	APHA 23rd Edition 2310 B
285	CHEMICAL- WATER	Surface Water	Alkalinity as CaCO3	APHA 23rd Edition 2320 B
286	CHEMICAL- WATER	Surface Water	Alkalinity as CaCO3	IS 3025 (Part 23)

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287	CHEMICAL- WATER	Surface Water	Ammonia as NH3	IS 3025 (Part 34)
288	CHEMICAL- WATER	Surface Water	Ammonia as NH3	APHA 23rd Edition 4500 NH3 B & C
289	CHEMICAL- WATER	Surface Water	Anionic Surfactant (MBAS)	APHA 23rd Edition 5540 C
290	CHEMICAL- WATER	Surface Water	Bicarbonate	IS 3025 (Part 23)
291	CHEMICAL- WATER	Surface Water	Bicarbonate	APHA 23rd Edition 2320 B
292	CHEMICAL- WATER	Surface Water	Bio assay Test	GEMI/SOP/CHEM/16 (Issue no.02, Issue date 18.12.2014)
293	CHEMICAL- WATER	Surface Water	Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44)
294	CHEMICAL- WATER	Surface Water	Calcium as CaCO3	APHA 23rd Edition 3500 Ca B
295	CHEMICAL- WATER	Surface Water	Carbon Dioxide	APHA 23rd Edition 4500 CO2 C
296	CHEMICAL- WATER	Surface Water	Carbonate	APHA 23rd Edition 2320 B
297	CHEMICAL- WATER	Surface Water	Carbonate	IS 3025 (Part 23)
298	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand	APHA 23rd Edition 5220 B
299	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand (COD)	GEMI/SOP/CHEM/53
300	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)
301	CHEMICAL- WATER	Surface Water	Chloride	IS 3025 (Part 32)
302	CHEMICAL- WATER	Surface Water	Chloride	APHA 23rd Edition 4500 Cl B
303	CHEMICAL- WATER	Surface Water	Chromium Hexavalent (Cr+6)	APHA 23rd Edition 3500 Cr B
304	CHEMICAL- WATER	Surface Water	Color	IS 3025 (Part 4)
305	CHEMICAL- WATER	Surface Water	Color	APHA 23rd Edition 2120 B
306	CHEMICAL- WATER	Surface Water	Conductivity	IS 3025 (Part 14)
307	CHEMICAL- WATER	Surface Water	Conductivity	APHA 23rd Edition 2510 B
308	CHEMICAL- WATER	Surface Water	Cyanide	APHA 23rd Edition 4500 CN E
309	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	IS 3025 (Part 38)
310	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	APHA 23rd Edition 4500 O C
311	CHEMICAL- WATER	Surface Water	Fluoride as F-	APHA 23rd Edition 4500 F- D
312	CHEMICAL- WATER	Surface Water	Magnesium as CaCO3	APHA 23rd Edition 3500 Mg B
313	CHEMICAL- WATER	Surface Water	Mineral Oil	APHA 23rd Edition 5520 C

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314	CHEMICAL- WATER	Surface Water	Nitrate as NO3	APHA 23rd Edition 4500 NO3 B
315	CHEMICAL- WATER	Surface Water	Nitrite as NO2	APHA 23rd Edition 4500 NO2 B
316	CHEMICAL- WATER	Surface Water	Odour	IS 3025 (Part 5)
317	CHEMICAL- WATER	Surface Water	Oil & Grease	APHA 23rd Edition 5520 D
318	CHEMICAL- WATER	Surface Water	pH	IS 3025 (Part 11)
319	CHEMICAL- WATER	Surface Water	pH	APHA 23rd Edition 4500 H+ B
320	CHEMICAL- WATER	Surface Water	Phenol	APHA 23rd Edition 5530 B+D
321	CHEMICAL- WATER	Surface Water	Phosphorus	APHA 23rd Edition 4500 P D
322	CHEMICAL- WATER	Surface Water	Silica as SiO2	APHA 23rd Edition 4500 C
323	CHEMICAL- WATER	Surface Water	Silica as SiO2	IS 3025 (Part 35)
324	CHEMICAL- WATER	Surface Water	Sodium Absorption Ration (SAR)	IS 11624
325	CHEMICAL- WATER	Surface Water	Sulphate as SO4	APHA 23rd Edition 4500 SO4-2 E
326	CHEMICAL- WATER	Surface Water	Sulphate as SO4	IS 3025 (Part 24)
327	CHEMICAL- WATER	Surface Water	Sulphide as S-2	APHA 23rd Edition 4500 S-2 F
328	CHEMICAL- WATER	Surface Water	Temperature as °C	APHA 23rd Edition 2550 B
329	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA 23rd Edition 2540 C
330	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025 (Part 16)
331	CHEMICAL- WATER	Surface Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
332	CHEMICAL- WATER	Surface Water	Total Hardness as CaCO3	IS 3025 (Part 21)
333	CHEMICAL- WATER	Surface Water	Total Kjeldahl Nitrogen as N (TKN)	APHA 23rd Edition 4500 B C
334	CHEMICAL- WATER	Surface Water	Total Phosphorus as PO4	APHA 23rd Edition 4500 P D
335	CHEMICAL- WATER	Surface Water	Total Phosphorus as PO4	IS 3025 (Part 31)
336	CHEMICAL- WATER	Surface Water	Total Residual Chlorine	APHA 23rd Edition 4500 Cl B
337	CHEMICAL- WATER	Surface water	Total Solid (TS)	APHA 23rd Edition 2540 B
338	CHEMICAL- WATER	Surface Water	Total Solid (TS)	IS 3025 (Part 15)
339	CHEMICAL- WATER	Surface Water	Total Solids	APHA 23rd Edition 2540 B
340	CHEMICAL- WATER	Surface Water	Total Suspended Solids	IS 3025 (Part 17)
341	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 23rd Edition 2540 D
342	CHEMICAL- WATER	Surface Water	Turbidity	APHA 23rd Edition 2130 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
343	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part 10)