National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SHIVALIK SOLID WASTE MANAGEMENT LIMITED, VILLAGE- MAJRA, P.O.- DABHOTA, SOLAN, HIMACHAL PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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- ENVIRONMENT AND POLLUTION	Effluents/Waste Water	Escherichia coli	APHA23rd Edition (9221 F) Multiple Tube Dilution Test
2	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Effluents/Waste Water	Thermotolerant Coliforms(Faecal Coliforms)	APHA23rd Edition (9221 E) Multiple Tube Dilution Test
3	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Effluents/Waste Water	Total Coliform Baterial	APHA23rd Edition (9221 B) Multiple Tube Dilution Test
4	BIOLOGICAL- WATER	Drinking Water	Escherichia coli	APHA23rd Edition (9221F) MultipleTube Dilution Test
5	BIOLOGICAL- WATER	Drinking Water	Standard Plate Count	APHA23rd Edition (9215 B) Pour Plate Method
6	BIOLOGICAL- WATER	Drinking Water	Total Coliform	APHA23rd Edition (9221 B) Multiple Tube Dilution Test
7	BIOLOGICAL- WATER	Ground Water	Total Coliform	APHA23rd Edition (9221 B) Multiple Tube Dilution Test
8	BIOLOGICAL- WATER	Ground Water	Escherichia coli	APHA23rd Edition (9221F) Multiple Tube Dilution Test
9	BIOLOGICAL- WATER	Ground Water	Standard Plate Count	APHA23rd Edition (9215 B) Pour Plate Method
10	BIOLOGICAL- WATER	Surface Water	Escherichia coli	APHA23rd Edition (9221 F) Multiple Tube Dilution Test
11	BIOLOGICAL- WATER	Surface Water	Standard Plate Count	APHA23rd Edition (9215 B) Pour Plate Method
12	BIOLOGICAL- WATER	Surface Water	Thermotolerant Coliforms (Fecal Coliforms)	APHA23rd Edition (9221 E) Multiple Tube Dilution Test
13	BIOLOGICAL- WATER	Surface Water	Total Coliform Bacterial	APHA23rd Edition (9221 B) Multiple Tube Dilution Test
14	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ammonia	IS 5182 (Part 25)
15	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Benzene	IS 5182 (Part 11)
16	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Benzopyrene (BaP) in Particulate Matter	IS 5182 (Part 12)
17	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Metals in Particulate Matter Arsenic (As)	SOP No. T/AA-05

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18	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Metals in Particulate Matter Lead (Pb)	IS 5182 (Part 22)
19	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Metals in Particulate Matter Nickel (Ni)	IS 5182 (Part 26)
20	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Dioxide (NO2)	IS 5182 (Part VI)
21	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone	IS 5182 (Part 9)
22	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM10	IS 5182 (Part 23)
23	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM2.5	IS 5182 (Part 24)
24	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO2)	IS 5182 (Part II)
25	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxide of Nitrogen	IS 11255 (Part 7)
26	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter	IS 11255 (Part 1)
27	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide (SO2)	IS 11255 (Part 2)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Metal Testing in Leachate (TCLP) (Liquid/Slurry/Sludge/Solid/Semi)	Cadmium	CPCB Manual LATS/16/2003-04
29	CHEMICAL- POLLUTION & ENVIRONMENT	Metal Testing in Leachate (TCLP) (Liquid/Slurry/Sludge/Solid/Semi)	Chromium as Cr	CPCB Manual LATS/16/2003-04
30	CHEMICAL- POLLUTION & ENVIRONMENT	Metal Testing in Leachate (TCLP) (Liquid/Slurry/Sludge/Solid/Semi)	Copper as Cu	CPCB Manual LATS/16/2003-04
31	CHEMICAL- POLLUTION & ENVIRONMENT	Metal Testing in Leachate (TCLP) (Liquid/Slurry/Sludge/Solid/Semi)	Iron as Fe	CPCB Manual LATS/16/2003-04
32	CHEMICAL- POLLUTION & ENVIRONMENT	Metal Testing in Leachate (TCLP) (Liquid/Slurry/Sludge/Solid/Semi)	Lead as Pb	CPCB Manual LATS/16/2003-04
33	CHEMICAL- POLLUTION & ENVIRONMENT	Metal Testing in Leachate (TCLP) (Liquid/Slurry/Sludge/Solid/Semi)	Nickel as Ni	CPCB Manual LATS/16/2003-04
34	CHEMICAL- POLLUTION & ENVIRONMENT	Metal Testing in Leachate (TCLP) (Liquid/Slurry/Sludge/Solid/Semi)	Zinc as Zn	CPCB Manual LATS/16/2003-04
35	CHEMICAL- POLLUTION & ENVIRONMENT	Metal Testing in Leachate (TCLP) (Liquid/Slurry/Sludge/Solid/Semi)	Mercury as Hg	CPCB Manual LATS/16/2003-04
36	CHEMICAL- POLLUTION & ENVIRONMENT	Metal Testing in Leachate (TCLP) (Liquid/Slurry/Sludge/Solid/Semi)	Arsenic as As	CPCB Manual LATS/16/2003-04

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37	CHEMICAL- POLLUTION & ENVIRONMENT	Metal Testing in Leachate (TCLP) (Liquid/Slurry/Sludge/Solid/Semi)	Manganese as Mn	CPCB Manual LATS/16/2003-04
38	CHEMICAL- POLLUTION & ENVIRONMENT	Metals in Wastes (Liquid/Slurry/Sludge/So lid/Semi)	Manganese	USEPA 3050B
39	CHEMICAL- POLLUTION & ENVIRONMENT	Metals in Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Mercury as Hg	USEPA Method 3050B
40	CHEMICAL- POLLUTION & ENVIRONMENT	Metals in Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Zinc as Zn	USEPA Method 3050B
41	CHEMICAL- POLLUTION & ENVIRONMENT	Metals in Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Arsenic	USEPA 3050B
42	CHEMICAL- POLLUTION & ENVIRONMENT	Metals in Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Cadmium as Cd	USEPA Method 3050B
43	CHEMICAL- POLLUTION & ENVIRONMENT	Metals in Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Chromium as Cr	USEPA Method 3050B
44	CHEMICAL- POLLUTION & ENVIRONMENT	Metals in Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Copper	USEPA Method 3050B
45	CHEMICAL- POLLUTION & ENVIRONMENT	Metals in Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Iron as Fe	USEPA Method 3050B
46	CHEMICAL- POLLUTION & ENVIRONMENT	Metals in Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Lead as Pb	USEPA Method 3050B
47	CHEMICAL- POLLUTION & ENVIRONMENT	Metals in Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Nickel as Ni	USEPA Method 3050B
48	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Available Nitrogen	SOP No. T/S-12
49	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Available Phosphorus	SOP No. T/S-09
50	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Available Potassium	SOP No. T/S-10
51	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Cadmium	SOP No. T/S-07
52	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Conductivity (1:2.5 at 25°C±1°C)	IS 14767
53	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Copper	SOP No. T/S-07
54	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Iron	SOP No. T/S-07
55	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Lead	SOP No. T/S-07

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56	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Manganese	SOP No. T/S-07
57	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Moisture Content/water content	Sec-1 IS 2720 (Part II)
58	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Nickel	SOP No. T/S-07
59	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Organic carbon	Sec-1 IS 2720 (Part XXII)
60	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Organic Matter	Sec-1 IS 2720 (Part XXII)
61	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	pH (1:2.5 at 25°C±1°C)	IS 2720 (Part 26),clause 2
62	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Total Nitrogen (TKN)	IS 14684
63	CHEMICAL- POLLUTION & ENVIRONMENT	Soil /Sediments	Zinc	SOP No. T/S-07
64	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/sediments	Total Soluble Solids	IS : 2720 (Part XXI)
65	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/sediments	Total Soluble Sulphate	IS :2720 (Part XXVII)
66	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/sediments	Cation Exchange Capacity	IS 2720 (Part XXIV)clause-3
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Bio Assay Test (Acute Toxicity)	IS 6582
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	pH	APHA23rd Edition (4500 H+ B)
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Anionic Surfactant as MBAS	APHA23rd Edition (5540 C)
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Colour	APHA23rd Edition (2120 B)
71	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Fixed Solids (dissolved)	APHA23rd Edition (2540 E)
72	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Fluoride	APHA23rd Edition (4500-F-D)
73	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Volatile Solids (Dissolved)	APHA23rd Edition (2540 E)
74	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Acidity as CaCO3	APHA23rd Edition (2310 B)

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75	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Arsenic	APHA23rd Edition (3113 B)
76	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44)
77	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Boron as B	APHA23rd Edition (4500-B-B)
78	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Cadmium	APHA23rd Edition (3111B)
79	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Chemical Oxygen Demand (COD)	APHA23rd Edition (5220 B)
80	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Chloride	APHA23rd Edition (4500Cl - B)
81	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Chromium	APHA23rd Edition (3111-B)
82	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Cobalt	APHA23rd Edition (3111 B)
83	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Copper	APHA23rd Edition (3111 B)
84	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Dissolved Oxygen	APHA23rd Edition (4500-O C)
85	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Fixed Solids/ Inorganic Solids	APHA23rd Edition (2540 E)
86	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Free Residual Chlorine in Treated Water	IS 3025 (Part 26),clause 3
87	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Hexavalent Chromium	APHA23rd Edition (3500 Cr B)
88	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Iron	APHA23rd Edition 3111 B
89	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Lead	APHA23rd Edition 3111 B
90	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Manganese	APHA23rd Edition 3111 B
91	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Mercury	APHA23rd Edition 3112 B
92	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Nickel	APHA23rd Edition 3111 B
93	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Nitrate Nitrogen	APHA23rd Edition (4500 NO3-B)

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94	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Nitrogen (Ammonia as NH3 – N)	APHA23rd Edition (4500 NH3 B & C)
95	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Oil & Grease	APHA23rd Edition (5520 B)
96	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Phenolic Compounds	IS 3025 (Part 43), clause 4-6
97	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Phosphorous	IS 3025 (Part 31), clause 4
98	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Potassium	APHA23rd Edition (3111 B)
99	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Selenium	APHA23rd Edition (3113 B)
100	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Sodium	APHA23rd Edition (3111 B)
101	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Specific Conductance at 25 Deg.C	APHA23rd Edition (2510-B)
102	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Sulphate	APHA23rd Edition (4500-SO4-D)
103	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Sulphate	APHA23rd Edition (4500-SO4-E)
104	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Sulphide	APHA23rd Edition (4500-S2- F)
105	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Sulphite	APHA23rd Edition (4500-SO3-B)
106	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Temperature	IS 3025 (Part 9)
107	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Total Kjeldhal Nitrogen	APHA23rd Edition(4500 Norg B)
108	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Total Dissolved Solids	APHA23rd Edition (2540-C)
109	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Total Suspended Solids	APHA23rd Edition (2540-D)
110	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Volatile Solids/ Organic Solids	APHA23rd Edition (2540 E)
111	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/ Sewage)	Zinc	APHA23rd Edition (3111 B)
112	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/So lid/Semi)	Paint Filter Liquid Test (PFLT)	CPCB Manual LATS/16/2003-04

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113	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Ash Content	IS 1448 (Part 126)
114	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Calorific Value	SOP No. T/HW-03
115	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Fixed Solids/ Inorganic Solids	APHA 23rd Edition (2540 E)
116	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Loss on Drying	CPCB Manual LATS/16/2003-04
117	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi)	pH at 25 °C	USEPA 9045D
118	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Volatile Solids (Loss on Ignition)	APHA 23rd edition 2540 G
119	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Slurry/Sludge/Solid/Semi)	Volatile Solids	APHA 23rd Edition (2540 E)
120	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Boron (as B)	IS 3025 (Part 57) clause 6
121	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Cadmium (as Cd)	APHA23rd Edition (3111 B)
122	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Cobalt (as Co)	APHA23rd Edition (3111 B)
123	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Copper (as Cu)	APHA23rd Edition (3111 B)
124	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Iron (as Fe)	APHA23rd Edition (3111 B)
125	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Lead (as Pb)	APHA23rd Edition (3111 B)
126	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Manganese (as Mn)	APHA23rd Edition (3111 B)
127	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Mercury (as Hg)	APHA23rd Edition (3112 B)
128	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Nickel (as Ni)	APHA23rd Edition (3111 B)
129	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Selenium (as Se)	APHA23rd Edition (3113 B)
130	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Total Arsenic (as As)	APHA23rd Edition (3113 B)
131	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Total Chromium (as Cr)	APHA23rd Edition (3111 B)

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132	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Zinc (as Zn)	APHA23rd Edition (3111 B)
133	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Aluminium (as Al)	IS 3025 (Part 55),clause 5
134	CHEMICAL- RESIDUES IN WATER	Water (Drinking Water, Ground Water, Surface Water, Swimming Pool)	Iron (as Fe)	APHA23rd Edition (3500-Fe B)
135	CHEMICAL- WATER	Construction water	Chloride (as Cl)	IS 3025 (Part 32),clause 2
136	CHEMICAL- WATER	Construction water	Fixed Solids/Inorganic Solids	IS 3025 (Part 18)
137	CHEMICAL- WATER	Construction water	pH	APHA23rd Ed. (4500 H+ B)
138	CHEMICAL- WATER	Construction water	Sulphates	IS 3025 (Part 24),clause 4
139	CHEMICAL- WATER	Construction water	Volatile Solids/ Organic Solids	IS 3025 (Part 18)
140	CHEMICAL- WATER	Construction water	Volume of 0.02 N H2SO4 required to neutralize 100 ml of the sample using mixed indicator (Alkalinity)	IS 3025 (Part 23),clause 8.1
141	CHEMICAL- WATER	Construction water	Volume of 0.02 N NaOH required to neutralize 100 ml of the sample using Phenolphthalein Indicator (Acidity)	IS 3025 (part 22), clause 8.1
142	CHEMICAL- WATER	Distilled Water	Colour Retention of KMnO4	IS 1070 (Annex A)
143	CHEMICAL- WATER	Drinking Water	Anionic Surfactants (as MBAS)	APHA23rd Edition (5540 C)
144	CHEMICAL- WATER	Drinking Water	Calcium	APHA23rd Edition (3500-Ca B)
145	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part 32),clause 2
146	CHEMICAL- WATER	Drinking Water	Colour	APHA23rd Edition (2120 B)
147	CHEMICAL- WATER	Drinking Water	Fluoride	APHA23rd Edition (4500 F -D)
148	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine	IS 3025 (Part 26),clause 3
149	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine	APHA23rd Edition (4500-Cl G)
150	CHEMICAL- WATER	Drinking Water	Magnesium	APHA23rd Edition (3500 Mg - B)
151	CHEMICAL- WATER	Drinking Water	Nitrate Nitrogen	APHA23rd Edition (4500-NO3 B)
152	CHEMICAL- WATER	Drinking Water	Nitrogen (Ammonia as NH3 -N)	APHA23rd Edition (4500-NH3 B & C)
153	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5)
154	CHEMICAL- WATER	Drinking Water	pH	APHA23rd Edition (4500H+ B)

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155	CHEMICAL- WATER	Drinking Water	Phenolic Compounds	IS 3025 (Part 43), clause 6
156	CHEMICAL- WATER	Drinking Water	Specific Conductance at 25 Deg.C	APHA23rd Edition (2510 B)
157	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (Part 24),clause 4
158	CHEMICAL- WATER	Drinking Water	Sulphide	IS 3025 (Part 29)
159	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (part 8)
160	CHEMICAL- WATER	Drinking Water	Temperature	IS 3025 (Part 9)
161	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	APHA23rd Edition (2320 B)
162	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16)
163	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	APHA23rd Edition (2340 C)
164	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (Part 17)
165	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
166	CHEMICAL- WATER	Ground water	Acidity as CaCO3	APHA23rd Edition (2310 B)
167	CHEMICAL- WATER	Ground water	Potassium	APHA23rd Edition (3500-K B)
168	CHEMICAL- WATER	Ground Water	Residual Sodium carbonate	IS 11624 by calculation
169	CHEMICAL- WATER	Ground Water	Sodium Absorption Ratio (SAR)	IS 11624 by Calculation
170	CHEMICAL- WATER	Ground water	Sodium	APHA23rd Edition (3500-Na B)
171	CHEMICAL- WATER	Ground water	Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44)
172	CHEMICAL- WATER	Ground water	Calcium	APHA23rd Edition (3500-Ca B)
173	CHEMICAL- WATER	Ground water	Chemical Oxygen Demand (COD)	APHA23rd Edition (5220 B)
174	CHEMICAL- WATER	Ground water	Chloride	IS 3025 (Part 32)
175	CHEMICAL- WATER	Ground water	Color	APHA23rd Edition (2120 B)
176	CHEMICAL- WATER	Ground water	Dissolved Oxygen	APHA23rd Edition (4500-O-B,C)
177	CHEMICAL- WATER	Ground water	Magnesium	APHA23rd Edition (3500 Mg - B)
178	CHEMICAL- WATER	Ground water	Nitrate Nitrogen	APHA23rd Edition (4500 NO3 - B)
179	CHEMICAL- WATER	Ground Water	Nitrite	APHA23rd Edition (4500-NO2 B)
180	CHEMICAL- WATER	Ground Water	Oil & Grease	APHA23rd Edition (5520 B)
181	CHEMICAL- WATER	Ground water	pH	APHA23rd Edition (4500 H+ B)

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182	CHEMICAL- WATER	Ground water	Phenolic Compounds	IS 3025 (Part 43), clause 6
183	CHEMICAL- WATER	Ground water	Phosphorous	IS 3025 (Part 31), clause 4
184	CHEMICAL- WATER	Ground water	Potassium	APHA23rd Edition (3111 B)
185	CHEMICAL- WATER	Ground water	Silica	APHA23rd Edition (4500 SiO2 C)
186	CHEMICAL- WATER	Ground water	Sodium	APHA23rd Edition (3111 B)
187	CHEMICAL- WATER	Ground water	Specific Conductance at 25 Deg.C	APHA23rd Edition (2510 B)
188	CHEMICAL- WATER	Ground water	Sulphates	IS 3025 (Part 24),clause 4
189	CHEMICAL- WATER	Ground water	Sulphide	IS 3025 (Part 29)
190	CHEMICAL- WATER	Ground water	Temperature	IS 3025 (part 9)
191	CHEMICAL- WATER	Ground water	Total Alkalinity as CaCO3	APHA23rd Edition (2320 B)
192	CHEMICAL- WATER	Ground water	Total Dissolved Solids	IS 3025 (part 16)
193	CHEMICAL- WATER	Ground water	Total Hardness as CaCO3	APHA23rd Edition (2340 C)
194	CHEMICAL- WATER	Ground water	Total Suspended Solids	IS 3025 (Part 17)
195	CHEMICAL- WATER	Ground water	Turbidity	IS 3025 (Part 10)
196	CHEMICAL- WATER	Ground water	Volatile Solids/ Organic Solids	IS 3025 (Part 18)
197	CHEMICAL- WATER	Surface water	Volatile Solids	IS 3025 (Part 18)
198	CHEMICAL- WATER	Surface water	Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44)
199	CHEMICAL- WATER	Surface water	Calcium	APHA23rd Edition (3500-Ca B)
200	CHEMICAL- WATER	Surface water	Chemical Oxygen Demand (COD)	APHA23rd Edition (5220 B)
201	CHEMICAL- WATER	Surface water	Chloride	APHA23rd Edition (4500Cl B)
202	CHEMICAL- WATER	Surface water	Colour	APHA23rd Edition (2120 B)
203	CHEMICAL- WATER	Surface water	Dissolved Oxygen	APHA23rd Edition (4500-O-B,C)
204	CHEMICAL- WATER	Surface water	Fixed Solids	IS 3025 (part 18)
205	CHEMICAL- WATER	Surface water	Free Residual Chlorine	IS 3025 (Part 26),clause 3
206	CHEMICAL- WATER	Surface water	Magnesium	APHA23rd Edition (3500-Mg B)
207	CHEMICAL- WATER	Surface water	Nitrate Nitrogen	APHA23rd Edition (4500-NO3 B)
208	CHEMICAL- WATER	Surface water	Oil & Grease	APHA23rd Edition (5520 B)

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209	CHEMICAL- WATER	Surface water	pH	APHA23rd Edition (4500H+ B)
210	CHEMICAL- WATER	Surface water	Phenolic Compounds	IS 3025 (Part 43), clause 6
211	CHEMICAL- WATER	Surface water	Phosphorous	IS 3025 (Part 31), clause 4
212	CHEMICAL- WATER	Surface water	Potassium	APHA23rd Edition (3111 B)
213	CHEMICAL- WATER	Surface water	Silica	APHA23rd Edition (4500 SiO2 C)
214	CHEMICAL- WATER	Surface water	Sodium	APHA23rd Edition (3111 B)
215	CHEMICAL- WATER	Surface water	Specific Conductance at 25 Deg.C	APHA23rd Edition (2510 B)
216	CHEMICAL- WATER	Surface Water	Sulphate	IS 3025 (Part 24),clause 4
217	CHEMICAL- WATER	Surface water	Sulphide	APHA23rd Edition (4500-S2- F)
218	CHEMICAL- WATER	Surface water	Temperature	IS 3025 (Part 9)
219	CHEMICAL- WATER	Surface water	Total Alkalinity as CaCO3	APHA23rd Edition (2320 B)
220	CHEMICAL- WATER	Surface water	Total Dissolved Solids	APHA23rd Edition (2540 C)
221	CHEMICAL- WATER	Surface water	Total Hardness as CaCO3	APHA23rd Edition (2340 C)
222	CHEMICAL- WATER	Surface water	Total Suspended Solids	APHA23rd Edition (2540 D)
223	CHEMICAL- WATER	Surface water	Turbidity	IS 3025 (part 10) Nephlometeric Method
224	CHEMICAL- WATER	Swimming Pool	Chloride	IS 3025 (Part 32),clause 2
225	CHEMICAL- WATER	Swimming Pool	Colour	APHA23rd Edition (2120 B)
226	CHEMICAL- WATER	Swimming Pool	Odour	IS 3025 (part 5)
227	CHEMICAL- WATER	Swimming Pool	Oxygen Absorbed in 4 Hrs. at 37 °C	IS 3025 (Part 63)
228	CHEMICAL- WATER	Swimming Pool	pH	APHA 23rd Edition (4500 H+ B)
229	CHEMICAL- WATER	Swimming Pool	Total Alkalinity as CaCO3	APHA23rd Edition (2350 B)
230	CHEMICAL- WATER	Swimming Pool	Total Dissolved Solids	IS 3025 (Part 16)
231	CHEMICAL- WATER	Swimming Pool	Total Residual Chlorine	IS 3025 (part 26)
232	CHEMICAL- WATER	Swimming Pool	Turbidity	IS 3025 (part 10)

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Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Carbon Monoxide (CO)	SOP No. T/AA-06
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Level (Excluding vibration)	Ambient Noise Levels dB(A) Leq	IS 9989
3	CHEMICAL- ATMOSPHERIC POLLUTION	Source Noise Level (DG)	Noise Levels (DG)	IS/ISO 8528 (Part 10)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Mono oxide (CO)	SOP No. T/AE-04
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Hydrocarbon (HC)	SOP No. T/AE-04
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon dioxide (CO2)	SOP No. T/AE-04
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Mono oxide (CO)	SOP No. T/AE-04
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxygen (O2)	SOP No. T/AE-04