National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SOPHISTICATED ANALYTICAL INSTRUMENTS LABORATORIES SOCIETY, THAPAR TECHNOLOGY CAMPUS, BHADSON ROAD, PATIALA, PUNJAB, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen oxides	IS 5182 (Part 6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (PM10)	IS:5182 (Part 4)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur dioxide	IS 5182 (Part 2)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter (PM)	IS 11255 (Part 1)
5	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phosphorous	IS 3025 (Part 31)
6	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Chemical Oxygen Demand	APHA 23rd Edn 5220 B
7	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Chloride	IS 3025 (Part 32)
8	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	pH	APHA 23rd Edn 4500-H+B
9	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	pH	IS 3025 (Part 11)
10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Phosphorus	APHA 23rd Edn 4500-PC
11	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Sulphate	IS 3025 (Part 24)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Dissolved Solids	APHA 23rd Edn 2540-C
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Dissolved Solids	IS 3025 (Part 16)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Suspended Solids	APHA 23rd Edn 2540-D
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Suspended Solids	IS 3025 (Part 17)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage	Flouride	IS 3025 (Part 60)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Alkalinity	IS 3025 (Part 23)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammoniacal Nitrogen as N	IS 3025 (Part 34)

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Arsenic	APHA 23rd Edn 3114 C
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Arsenic	IS 3025 (Part 37)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Biochemical Oxygen Demand (BOD) 3 days	IS 3025 (Part 44)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cadmium	APHA 23rd Edn 3111 B
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium	APHA 23rd Edn 3500 Ca B
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium	IS 3025 (Part 40)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand	IS 3025 (Part 58)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cobalt	APHA 23rd Edition 3111 B
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Copper	APHA 23rd Edn 3111 B
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Copper	IS 3025 (Part 42)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cyanide	APHA 23rd Edn 4500 CN F
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cyanide	IS: 3025 (Part 27)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride	APHA 23rd Edn 4500F- C
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hexavalent Chromium	APHA 23rd Edn 3500Cr B
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hexavalent Chromium	IS 3025 (Part52)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Iron	APHA 23rd Edn 3111 B
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Iron	IS 3025 (Part 53)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Kjeldahl Nitrogen as N	APHA 23rd Edn 4500 Norg B
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Kjeldahl Nitrogen as N	IS: 3025 (Part 34)

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Magnesium	APHA 23rd Edn 3111 B
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Magnesium	IS 3025 (Part 46)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Manganese	APHA 23rd Edition 3111 B
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Mercury	APHA 23rd Edn 3112 B
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Mercury	IS 3025 (Part 48)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nickel	APHA 23rd Edn 3111 B
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nickel	IS 3025 (Part 54)
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil and Grease	APHA 23rd Edn 5520 B
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil and Grease	IS 3025 (Part 39)
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium	APHA 23rd Edn 3500 K B
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium	IS: 3025 (Part 45)
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium	APHA 23rd Edn 3500 Na B
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium	IS 3025 (Part 45)
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Soluble Silica	APHA 23rd Edn 4500SiO2 C
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Soluble Silica	IS 3025 (Part 35)
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate	APHA 23rd Edn 4500 SO4-2 C
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Chromium	APHA 23rd Edn 3500Cr B
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total chromium	IS 3025 (Part 52)
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Hardness	APHA 23rd Edn 2340 C

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57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Hardness	IS 3025 (Part 21)
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Zinc	APHA 23rd Edn 3111 B
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Zinc	IS 3025 (Part 49)
60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)v	Cadmium	IS 3025 (Part 41)
61	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)Waste Water (Effluents/Sewage)	Alkalinity	APHA 23rd Edn 2320 B
62	CHEMICAL- POLLUTION & ENVIRONMENT	Water Water (Effluents/Sewage)	Phosphorus	IS 3025 (Part 31)
63	CHEMICAL- RESIDUES IN WATER	Drinking Water	Arsenic	APHA 23rd Edn 3114 C
64	CHEMICAL- RESIDUES IN WATER	Drinking Water	Arsenic	IS 3025 (Part 37)
65	CHEMICAL- RESIDUES IN WATER	Drinking Water	Calcium	APHA 23rd Edn 3500 Ca B
66	CHEMICAL- RESIDUES IN WATER	Drinking Water	Calcium	IS 3025 (Part 40)
67	CHEMICAL- RESIDUES IN WATER	Drinking Water	Copper	APHA 23rd Edn 3111 B
68	CHEMICAL- RESIDUES IN WATER	Drinking Water	Copper	IS 3025 (Part 42)
69	CHEMICAL- RESIDUES IN WATER	Drinking Water	Copper	IS 3025 (Part 42)
70	CHEMICAL- RESIDUES IN WATER	Drinking Water	Cyanide	APHA 23rd Edn 4500 CN F
71	CHEMICAL- RESIDUES IN WATER	Drinking Water	Cyanide	IS 3025 (Part 27)
72	CHEMICAL- RESIDUES IN WATER	Drinking Water	Hexavalent Chromium	APHA 23rd Edn 3111 B
73	CHEMICAL- RESIDUES IN WATER	Drinking Water	Hexavalent Chromium	IS 3025 (Part 52)
74	CHEMICAL- RESIDUES IN WATER	Drinking Water	Iron	APHA 23rd Edn 3111 B
75	CHEMICAL- RESIDUES IN WATER	Drinking Water	Iron	IS 3025 (Part 53)

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76	CHEMICAL- RESIDUES IN WATER	Drinking Water	Magnesium	APHA 23rd Edn 4500 SO4 -2 C
77	CHEMICAL- RESIDUES IN WATER	Drinking Water	Magnesium	IS 3025
78	CHEMICAL- RESIDUES IN WATER	Drinking Water	Magnesium	IS 3025 (Part 46)
79	CHEMICAL- RESIDUES IN WATER	Drinking Water	Manganese	APHA 23rd Edn 3111 B
80	CHEMICAL- RESIDUES IN WATER	Drinking Water	Mercury	APHA 23rd Edn 3112 B
81	CHEMICAL- RESIDUES IN WATER	Drinking Water	Mercury	IS 3025 (Part 48)
82	CHEMICAL- RESIDUES IN WATER	Drinking Water	Total Chromium	APHA 23rd Edn 3500 Cr B
83	CHEMICAL- RESIDUES IN WATER	Drinking Water	Total Chromium	IS 3025 (Part 52)
84	CHEMICAL- RESIDUES IN WATER	Drinking Water	Zinc	APHA 23rd Edn 3111 B
85	CHEMICAL- RESIDUES IN WATER	Drinking Water	Zinc	IS 3025 (Part 49)
86	CHEMICAL- RESIDUES IN WATER	Ground Water	Arsenic	APHA 23rd Edn 3114 C
87	CHEMICAL- RESIDUES IN WATER	Ground Water	Arsenic	IS 3025 (Part 37)
88	CHEMICAL- RESIDUES IN WATER	Ground Water	Calcium	APHA 23rd Edn 3500 Ca B
89	CHEMICAL- RESIDUES IN WATER	Ground Water	Calcium	IS 3025 (Part 40)
90	CHEMICAL- RESIDUES IN WATER	Ground Water	Copper	APHA 23rd Edn 3111 B
91	CHEMICAL- RESIDUES IN WATER	Ground Water	Cyanide	APHA 23rd Edn 4500 CN F
92	CHEMICAL- RESIDUES IN WATER	Ground Water	Cyanide	IS 3025 (Part 27)
93	CHEMICAL- RESIDUES IN WATER	Ground Water	Hexavalent Chromium	APHA 23rd Edn 3500 Cr B
94	CHEMICAL- RESIDUES IN WATER	Ground Water	Hexavalent Chromium	IS 3025 (Part 52)

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95	CHEMICAL- RESIDUES IN WATER	Ground Water	Iron	APHA 23rd Edn 311 B
96	CHEMICAL- RESIDUES IN WATER	Ground Water	Iron	IS 3025 (Part 53)
97	CHEMICAL- RESIDUES IN WATER	Ground Water	Magnesium	APHA 23rd Edn 3111 B & 3500 Mg B
98	CHEMICAL- RESIDUES IN WATER	Ground Water	Magnesium	IS 3025 (Part 46)
99	CHEMICAL- RESIDUES IN WATER	Ground Water	Manganese	APHA 23rd Edn 3111 B
100	CHEMICAL- RESIDUES IN WATER	Ground Water	Mercury	APHA 23rd Edn 3112 B
101	CHEMICAL- RESIDUES IN WATER	Ground Water	Mercury	IS 3025 (Part 48)
102	CHEMICAL- RESIDUES IN WATER	Ground Water	Total Chromium	APHA 23rd Edn 3500 Cr B
103	CHEMICAL- RESIDUES IN WATER	Ground Water	Total Chromium	IS 3025 (Part 52)
104	CHEMICAL- RESIDUES IN WATER	Ground Water	Zinc	APHA 23rd Edn 3111 B
105	CHEMICAL- RESIDUES IN WATER	Ground Water	Zinc	IS 3025 (Part 49)
106	CHEMICAL- RESIDUES IN WATER	Waste Water (Effluents/Sewage)	Hexavalent Chromium	APHA 23rd Edn 3500Cr B
107	CHEMICAL- RESIDUES IN WATER	Waste Water (Effluents/Sewage)	Hexavalent Chromium	IS 3025 (Part 52)
108	CHEMICAL- RESIDUES IN WATER	Waste Water (Effluents/Sewage)	Total Chromium	APHA 23rd Edn 3500Cr B
109	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 (Part 1)
110	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS 1350 (Part 1)
111	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	IS 1350 (Part 2)
112	CHEMICAL- SOLID FUELS	Coal	Moisture	IS 1350 (Part 1)
113	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	IS 1350 (Part 3)
114	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	IS 1350 (Part 1)
115	CHEMICAL- WATER	Drinking Water	Alkalinity	APHA 23rd Edn 2320 B
116	CHEMICAL- WATER	Drinking Water	Alkalinity	IS 3025 (Part 23)

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117	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part 32)
118	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 (Part 4)
119	CHEMICAL- WATER	Drinking Water	Fluoride	APHA 23rd Edn 4500F- C
120	CHEMICAL- WATER	Drinking Water	Fluoride	IS 3025 (Part 60)
121	CHEMICAL- WATER	Drinking Water	Nitrate	APHA 23rd Edn 4500 NO3 B
122	CHEMICAL- WATER	Drinking Water	pH	APHA 23rd. Edn. 4500-H+B
123	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11)
124	CHEMICAL- WATER	Drinking Water	Sulphate	APHA 23rd Edn 4500SO4 -2 C
125	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (Part 24)
126	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA 23rd Edn 2540 C
127	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16)
128	CHEMICAL- WATER	Drinking Water	Total Hardness	APHA 23rd Edn 2340 C
129	CHEMICAL- WATER	Drinking Water	Total Hardness	IS 3025 (Part 21)
130	CHEMICAL- WATER	Drinking Water	Turbidity	APHA 23rd Edn 2130 B
131	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
132	CHEMICAL- WATER	Ground Water	Alkalinity	APHA 23rd Edn 2320 B
133	CHEMICAL- WATER	Ground Water	Alkalinity	IS 3025 (Part 23)
134	CHEMICAL- WATER	Ground Water	Chloride	IS 3025 (Part 32)
135	CHEMICAL- WATER	Ground Water	Colour	IS 3025 (Part 4)
136	CHEMICAL- WATER	Ground Water	Fluoride	APHA 23rd Edn 4500F- C
137	CHEMICAL- WATER	Ground Water	Fluoride	IS 3025 (Part 60)
138	CHEMICAL- WATER	Ground Water	Nitrate	APHA 23rd Edn 4500 NO3 B
139	CHEMICAL- WATER	Ground Water	pH	APHA 23rd. Edn. 4500-H+B
140	CHEMICAL- WATER	Ground Water	pH	IS 3025 (Part 11)
141	CHEMICAL- WATER	Ground Water	Sulphate	APHA 23rd Edn 4500SO4 -2 C
142	CHEMICAL- WATER	Ground Water	Sulphate	IS 3025 (Part 24)
143	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA 23rd Edn 2540 C
144	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025 (Part 16)
145	CHEMICAL- WATER	Ground Water	Total Hardness	APHA 23rd Edn 2340 C
146	CHEMICAL- WATER	Ground Water	Total Hardness	IS 3025 (Part 21)

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147	CHEMICAL- WATER	Ground Water	Turbidity	APHA 23rd Edn 2130 B
148	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10)

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Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon monoxide	SAI/SOP/02/02
2	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon-di-oxide	SAI/SOP/02/02
3	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxides of Nitrogen	SAI/SOP/02/02
4	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxygen	SAI/SOP/02/02
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur dioxide	SAI/SOP/02/02