National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HIYOSHI INDIA ECOLOGICAL SERVICES PRIVATE LIMITED, MODULE NO: 201 & 202 (PHASE I, 2ND FLOOR), TICEL BIOPARK LTD., TARAMANI ROAD (CSIR ROAD), TARAMANI, CHENNAI, TAMIL NADU, 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	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	pH	IS 3025 (Part 11)
2	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Ammoniacal Nitrogen (as NH3-N)	IS 3025 (Part 34)
3	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Antimony (as Sb)	IS 3025 (Part 2)
4	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Arsenic (as As)	IS 3025 (Part 2)
5	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Biochemical Oxygen Demand at 27oC for 3 Days	IS 3025 (Part 44)
6	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Boron (as B)	IS 3025 (Part 2)
7	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Cadmium (as Cd)	IS 3025 (Part 2)
8	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Calcium (as Ca)	APHA (24th Edition) - 3500 Ca B
9	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Calcium Hardness (as CaCO3)	APHA (24th Edition) - 3500 Ca B
10	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Carbonate Hardness (as CaCO3)	IS 3025 (Part 21)
11	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Chemical Oxygen Demand	IS 3025 (Part 58)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Chloramine	IS 3025 (Part 26)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Chloride (as Cl-)	IS 3025 (Part 32)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Chromium (as Cr)	IS 3025 (Part 2)
15	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Colour	IS 3025 (Part 4)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Copper (as Cu)	IS 3025 (Part 2)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Dissolved Oxygen	IS 3025 (Part 38)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Dissolved Phosphorus (as P)	IS 3025 (Part 31)

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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
19	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Electrical Conductivity (EC)	IS 3025 (Part 14)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Fixed Solids	APHA (24th Edition) - 2540 E
21	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Fluoride (as F)	APHA (24th Edition) - 4500 F- D
22	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Free Ammonia (as NH3)	IS 3025 (Part 34)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Free Carbon Dioxide (as CO2)	APHA (24th Edition) -4500 CO2-C
24	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Free Residual Chlorine (as Cl2)	IS 3025 (Part 26)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Hexavalent Chromium (as Cr6+)	IS 3025 (Part 52)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Iron (as Fe)	IS 3025 (Part 2)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Iron (as Fe)	IS 3025 (Part 53)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Kjeldahl Nitrogen (as N)	IS 3025 (Part 34)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Lead (as Pb)	IS 3025 (Part 2)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Magnesium (as Mg)	APHA (24th Edition) - 3500 Mg B
31	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Magnesium Hardness (as CaCO3)	APHA (24th Edition)- 3500 Mg B
32	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Mercury (as Hg)	HIES/SOP/95 (Issue No& date:01 & 31.01.2022
33	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Methyl Orange Alkalinity (as CaCO3)	IS 3025 (Part 23)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Nickel (as Ni)	IS 3025 (Part 2)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Nitrate Nitrogen (as NO3)	IS 3025 (Part 34)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Nitrite Nitrogen (as NO2)	IS 3025 (Part 34)
37	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Non - Carbonate Hardness (as CaCO3)	IS 3025 (Part 21)

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Oil and Grease	IS 3025 (Part 39)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Organic Nitrogen (as Norg)	IS 3025 (Part 34)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Percent Sodium	HIES/SOP/97 (Issue No& date:01 & 10.02.2022
41	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Phenol	IS 3025 (Part 43)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Phenolphthalein Alkalinity (as CaCO3)	IS 3025 (Part 23)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Potassium (as K)	IS 3025 (Part 45)
44	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Residual Sodium Carbonate	IS 11624
45	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Selenium (as Se)	IS 3025 (Part 2)
46	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Settleable Solids	APHA (24th Edition) - 2540 F
47	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Silica (as SiO2)	APHA (24th Edition) - 4500 SiO2 C
48	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Sodium (as Na)	IS 3025 (Part 45)
49	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Sodium Absorption Ratio (SAR)	IS 11624
50	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Sulphate (as SO4)	IS 3025 (Part 24)
51	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Sulphide (as S)	APHA (24th Edition) - 4500- S2- F
52	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Temperature	IS 3025 (Part 9)
53	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Total Alkalinity (as CaCO3)	IS 3025 (Part 23)
54	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Total Dissolved Solids (TDS)	IS 3025 (Part 16)
55	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Total Hardness (as CaCO3)	IS 3025 (Part 21)
56	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Total Phosphorus (as P)	IS 3025 (Part 31)

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57	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Total Solids (TS)	IS 3025 (Part 15)
58	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Total Suspended Solids (TSS)/Mixed Liquor Suspended Solids (MLSS)	APHA (24th Edition) - 2540 D
59	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Turbidity	IS 3025 (Part 10)
60	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Volatile Solids	APHA (24th Edition) - 2540 E
61	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/Sewage)	Zinc (as Zn)	IS 3025 (Part 2)
62	CHEMICAL- RESIDUES IN WATER	Borewell Water	Aluminium (as Al)	IS 3025 (Part 2)
63	CHEMICAL- RESIDUES IN WATER	Borewell Water	Antimony (as Sb)	IS 3025 (Part 2)
64	CHEMICAL- RESIDUES IN WATER	Borewell Water	Barium (as Ba)	IS 3025 (Part 2)
65	CHEMICAL- RESIDUES IN WATER	Borewell Water	Boron (as B)	IS 3025 (Part 2)
66	CHEMICAL- RESIDUES IN WATER	Borewell Water	Cadmium (as Cd)	IS 3025 (Part 2)
67	CHEMICAL- RESIDUES IN WATER	Borewell Water	Cobalt (as Co)	IS 3025 (Part 2)
68	CHEMICAL- RESIDUES IN WATER	Borewell Water	Copper (as Cu)	IS 3025 (Part 2)
69	CHEMICAL- RESIDUES IN WATER	Borewell Water	Iron (as Fe)	IS 3025 (Part 2)
70	CHEMICAL- RESIDUES IN WATER	Borewell Water	Lead (as Pb)	IS 3025 (Part 2)
71	CHEMICAL- RESIDUES IN WATER	Borewell Water	Manganese (as Mn)	IS 3025 (Part 2)
72	CHEMICAL- RESIDUES IN WATER	Borewell Water	Mercury (as Hg)	HIES/SOP/95 (Issue No& date:01 & 31.01.2022
73	CHEMICAL- RESIDUES IN WATER	Borewell Water	Molybdenum (as Mo)	IS 3025 (Part 2)
74	CHEMICAL- RESIDUES IN WATER	Borewell Water	Nickel (as Ni)	IS 3025 (Part 2)

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75	CHEMICAL- RESIDUES IN WATER	Borewell Water	Selenium (as Se)	IS 3025 (Part 2)
76	CHEMICAL- RESIDUES IN WATER	Borewell Water	Silver (as Ag)	IS 3025 (Part 2)
77	CHEMICAL- RESIDUES IN WATER	Borewell Water	Total Arsenic (as As)	IS 3025 (Part 2)
78	CHEMICAL- RESIDUES IN WATER	Borewell Water	Total Chromium (as Cr)	IS 3025 (Part 2)
79	CHEMICAL- RESIDUES IN WATER	Borewell Water	Zinc (as Zn)	IS 3025 (Part 2)
80	CHEMICAL- RESIDUES IN WATER	Drinking Water	Aluminium (as Al)	IS 3025 (Part 2)
81	CHEMICAL- RESIDUES IN WATER	Drinking Water	Antimony (as Sb)	IS 3025 (Part 2)
82	CHEMICAL- RESIDUES IN WATER	Drinking Water	Barium (as Ba)	IS 3025 (Part 2)
83	CHEMICAL- RESIDUES IN WATER	Drinking Water	Boron (as B)	IS 3025 (Part 2)
84	CHEMICAL- RESIDUES IN WATER	Drinking Water	Cadmium (as Cd)	IS 3025 (Part 2)
85	CHEMICAL- RESIDUES IN WATER	Drinking Water	Cobalt (as Co)	IS 3025 (Part 2)
86	CHEMICAL- RESIDUES IN WATER	Drinking Water	Copper (as Cu)	IS 3025 (Part 2)
87	CHEMICAL- RESIDUES IN WATER	Drinking Water	Iron (as Fe)	IS 3025 (Part 2)
88	CHEMICAL- RESIDUES IN WATER	Drinking Water	Lead (as Pb)	IS 3025 (Part 2)
89	CHEMICAL- RESIDUES IN WATER	Drinking Water	Manganese (as Mn)	IS 3025 (Part 2)
90	CHEMICAL- RESIDUES IN WATER	Drinking Water	Mercury (as Hg)	HIES/SOP/95 (Issue No& date:01 & 31.01.2022
91	CHEMICAL- RESIDUES IN WATER	Drinking Water	Molybdenum (as Mo)	IS 3025 (Part 2)
92	CHEMICAL- RESIDUES IN WATER	Drinking Water	Nickel (as Ni)	IS 3025 (Part 2)
93	CHEMICAL- RESIDUES IN WATER	Drinking Water	Selenium (as Se)	IS 3025 (Part 2)

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94	CHEMICAL- RESIDUES IN WATER	Drinking Water	Silver (as Ag)	IS 3025 (Part 2)
95	CHEMICAL- RESIDUES IN WATER	Drinking Water	Total Arsenic (as As)	IS 3025 (Part 2)
96	CHEMICAL- RESIDUES IN WATER	Drinking Water	Total Chromium (as Cr)	IS 3025 (Part 2)
97	CHEMICAL- RESIDUES IN WATER	Drinking Water	Zinc (as Zn)	IS 3025 (Part 2)
98	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Aluminium (as Al)	IS 3025 (Part 2)
99	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Antimony (as Sb)	IS 3025 (Part 2)
100	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Arsenic (as As)	IS 3025 (Part 2)
101	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Barium (as Ba)	IS 3025 (Part 2)
102	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Borates (as B)	IS 3025 (Part 2)
103	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Cadmium (as Cd)	IS 3025 (Part 2)
104	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Chromium (as Cr)	IS 3025 (Part 2)
105	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Cobalt (as Co)	IS 3025 (Part 2)
106	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Copper (as Cu)	IS 3025 (Part 2)
107	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Iron (as Fe)	IS 3025 (Part 2)
108	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Lead (as Pb)	IS 3025 (Part 2)
109	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Manganese (as Mn)	IS 3025 (Part 2)
110	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Mercury (as Hg)	HIES/SOP/95 (Issue No& date:01 & 31.01.2022
111	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Molybdenum (as Mo)	IS 3025 (Part 2)
112	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Nickel (as Ni)	IS 3025 (Part 2)

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113	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Selenium(as Se)	IS 3025 (Part 2)
114	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Silver (as Ag)	IS 3025 (Part 2)
115	CHEMICAL- RESIDUES IN WATER	Packaged Drinking Water	Zinc (as Zn)	IS 3025 (Part 2)
116	CHEMICAL- RESIDUES IN WATER	Swimming Pool Water	Aluminium (as Al)	IS 3025 (Part 2)
117	CHEMICAL- RESIDUES IN WATER	Swimming Pool Water	Lead (as Pb)	IS 3025 (Part 2)
118	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Bicarbonate Alkalinity (as CaCO3)	IS 3025 (Part 51)
119	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Calcium (as Ca)	APHA (24th Edition) - 3500 Ca B
120	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Carbonate Alkalinity (as CaCO3)	IS 3025 (Part 51)
121	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Carbonate Hardness (as CaCO3)	IS 3025 (Part 21)
122	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Chloramine	IS 3025 (Part 26)
123	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Chloride (as Cl-)	IS 3025 (Part 32)

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124	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Colour	IS 3025 (Part 4)
125	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Electrical Conductivity (EC)	IS 3025 (Part 14)
126	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Fluoride (as F)	APHA (24th Edition) - 4500 F D
127	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Free Carbon Dioxide (as CO2)	APHA (24th Edition) - 4500 CO2 C
128	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Free Residual Chlorine (as Cl2)	IS 3025 (Part 26)
129	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Hexavalent Chromium (as Cr6+)	IS 3025 (Part 52)
130	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Hydroxide Alkalinity (as CaCO3)	IS 3025 (Part 51)
131	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Iron (as Fe)	IS 3025 (Part 53)
132	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Kjeldahl Nitrogen (as N)	IS 3025 (Part 34)

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133	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Magnesium (as Mg)	APHA (24th Edition)- 3500 Mg B
134	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Nitrate Nitrogen (as NO3)	IS 3025 (Part 34)
135	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Nitrite Nitrogen (as NO2)	IS 3025 (Part 34)
136	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Non-Carbonate Hardness (as CaCO3)	IS 3025 (Part 21)
137	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Percent Sodium	HIES/SOP/97 (Issue No& date:01 & 10.02.2022
138	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	pH	IS 3025 (Part 11)
139	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Phenol	IS 3025 (Part 43)
140	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Potassium (as K)	IS 3025 (Part 45)
141	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Residual Sodium Carbonate	IS 11624

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Certificate Number	TC-5522
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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
142	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Sodium (as Na)	IS 3025 (Part 45)
143	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Sodium Absorption Ratio (SAR)	IS 11624
144	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Sulphate (as SO4)	IS 3025 (Part 24)
145	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Sulphide (as S)	IS 3025 (Part 29)
146	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Total Alkalinity (as CaCO3)	IS 3025 (Part 23)
147	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Total Dissolved Solids (TDS)	IS 3025 (Part 16)
148	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Total Hardness (as CaCO3)	IS 3025 (Part 21)
149	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Total Phosphorus (as P)	IS 3025 (Part 31)
150	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Total Solids (TS)	IS 3025 (Part 15)

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151	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Total Suspended Solids (TSS)	APHA (24th Edition) - 2540 D
152	CHEMICAL- WATER	Borewell Water, Surface Water, Water used for fishery (aquaculture), water used for bathing (cleaning purpose), water used for agriculture (irrigation purpose) and water used for conservation of living environment (lakes and other water bodies for aquatic beings)	Turbidity	IS 3025 (Part 10)
153	CHEMICAL- WATER	Construction Water	Chloride (as Cl-)	IS 3025 (Part 32)
154	CHEMICAL- WATER	Construction Water	Fixed Solids	APHA (24th Edition) - 2540 E
155	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part 11)
156	CHEMICAL- WATER	Construction Water	Sulphate (as SO4)	IS 3025 (Part 24)
157	CHEMICAL- WATER	Construction Water	Suspended Matter	APHA (24th Edition) - 2540 D
158	CHEMICAL- WATER	Construction Water	To neutralize 100 ml sample of water using mixed indicator with 0.02N H2SO4	IS 3025 (Part 23)
159	CHEMICAL- WATER	Construction Water	To neutralize 100 ml sample of water using phenolphthalein indicator with 0.02N NaOH	IS 3025 (Part 22)
160	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Caustic Alkalinity (as CaCO3)	IS 3025 (Part 23)
161	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Chloride (as Cl-)	IS 3025 (Part 32)
162	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Dissolved Oxygen	IS 3025 (Part 38)
163	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Electrical Conductivity (EC)	IS 3025 (Part 14)
164	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Free Ammonia (as NH3)	IS 3025 (Part 34)
165	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Hydrazine (as N2H4)	IS 3550
166	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Iron (as Fe)	IS 3025 (Part 53)
167	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Oxygen absorbed in 4 hours	IS 3025 (Part 63)
168	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	pH	IS 3025 (Part 11)

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169	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Silica (as SiO2)	APHA (24th Edition) - 4500 SiO2 C
170	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Total Alkalinity (as CaCO3)	IS 3025 (Part 23)
171	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Total Dissolved Solids	IS 3025 (Part 16)
172	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Total Hardness (as CaCO3)	IS 3025 (Part 21)
173	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Total Phosphorus (as P)	IS 3025 (Part 31)
174	CHEMICAL- WATER	Feed Water, Boiler Water, Condensate Water & Cooling Tower Water	Turbidity	IS 3025 (Part 10)
175	CHEMICAL- WATER	Reagent Grade Water	Colour Retention of KMnO4 at 27oC	IS 1070
176	CHEMICAL- WATER	Reagent Grade Water	Electrical Conductivity (EC)	IS 3025 (Part 14)
177	CHEMICAL- WATER	Reagent Grade Water	pH	IS 3025 (Part 11)
178	CHEMICAL- WATER	Reagent Grade Water	Silica (as SiO2)	APHA (24th Edition) - 4500 SiO2 D
179	CHEMICAL- WATER	Reagent Grade Water	Total Solids (TS)	IS 3025 (Part 15)
180	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Bicarbonate Alkalinity (as CaCO3)	IS 3025 (Part 51)
181	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Calcium (as Ca)	APHA (24th Edition) - 3500 Ca B
182	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Carbonate Alkalinity (as CaCO3)	IS 3025 (Part 51)
183	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Carbonate Hardness (as CaCO3)	IS 3025 (Part 21)
184	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Chloramine	IS 3025 (Part 26)
185	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Chloride (as Cl-)	IS 3025 (Part 32)
186	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Colour	IS 3025 (Part 4)
187	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Electrical Conductivity (EC)	IS 3025 (Part 14)
188	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Fluoride (as F)	APHA (24th Edition) - 4500 F- D

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189	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Free Carbon Dioxide (as CO2)	APHA (24th Edition)-4500 CO2-C
190	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Free Residual Chlorine (as Cl2)	IS 3025 (Part 26)
191	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Hexavalent Chromium (as Cr6+)	IS 3025 (Part 52)
192	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Hydroxide Alkalinity (as CaCO3)	IS 3025 (Part 51)
193	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Iron (as Fe)	IS 3025 (Part 53)
194	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Kjeldahl Nitrogen (as N)	IS 3025 (Part 34)
195	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Magnesium (as Mg)	APHA (24th Edition) - 3500 Mg B
196	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Nitrate Nitrogen (as NO3)	IS 3025 (Part 34)
197	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Nitrite Nitrogen (as NO2)	IS 3025 (Part 34)
198	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Non-Carbonate Hardness (as CaCO3)	IS 3025 (Part 21)
199	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Percent Sodium	HIES/SOP/97 (Issue No& date:01 & 10.02.2022
200	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	pH	IS 3025 (Part 11)
201	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Phenol	IS 3025 (Part 43)
202	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Potassium (as K)	IS 3025 (Part 45)
203	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Residual Sodium Carbonate	IS 11624
204	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Sodium (as Na)	IS 3025 (Part 45)
205	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Sodium Absorption Ratio (SAR)	IS 11624
206	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Sulphate (as SO4)	IS 3025 (Part 24)
207	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Sulphide (as S)	IS 3025 (Part 29)

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208	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Total Alkalinity (as CaCO3)	IS 3025 (Part 23)
209	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Total Dissolved Solids (TDS)	IS 3025 (Part 16)
210	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Total Hardness (as CaCO3)	IS 3025 (Part 21)
211	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Total Phosphorus (as P)	IS 3025 (Part 31)
212	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Total Solids (TS)	IS 3025 (Part 15)
213	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Total Suspended Solids (TSS)	APHA (24th Edition)- 2540 D
214	CHEMICAL- WATER	RO Water, Packaged Natural Mineral Water, Food Processing Water & Water from Purifiers	Turbidity	IS 3025 (Part 10)
215	CHEMICAL- WATER	Storage Battery Water	Chloride (as Cl-)	IS 3025 (Part 32)
216	CHEMICAL- WATER	Storage Battery Water	Electrical Conductivity (EC)	IS 3025 (Part 14)
217	CHEMICAL- WATER	Storage Battery Water	Iron (as Fe)	IS 3025 (Part 53)
218	CHEMICAL- WATER	Storage Battery Water	Non-Volatile Residue	IS 1069
219	CHEMICAL- WATER	Storage Battery Water	Oxidizable Matter	IS 1069
220	CHEMICAL- WATER	Storage Battery Water	pH	IS 3025 (Part 11)
221	CHEMICAL- WATER	Storage Battery Water	Total Dissolved Solids (TDS)	IS 3025 (Part 16)
222	CHEMICAL- WATER	Storage Battery Water	Total Hardness (as CaCO3)	IS 3025 (Part 21)
223	CHEMICAL- WATER	Swimming Pool Water	Chloride (as Cl-)	IS 3025 (Part 32)
224	CHEMICAL- WATER	Swimming Pool Water	Free Residual Chlorine (as Cl2)	IS 3025 (Part 26)
225	CHEMICAL- WATER	Swimming Pool Water	Iron (as Fe)	IS 3025 (Part 53)
226	CHEMICAL- WATER	Swimming Pool Water	Oxygen absorbed in 4 hours	IS 3025 (Part 63)
227	CHEMICAL- WATER	Swimming Pool Water	pH	IS 3025 (Part 11)
228	CHEMICAL- WATER	Swimming Pool Water	Total Alkalinity (as CaCO3)	IS 3025 (Part 23)
229	CHEMICAL- WATER	Swimming Pool Water	Total Dissolved Solids (TDS)	IS 3025 (Part 16)
230	CHEMICAL- WATER	Swimming Pool Water	Turbidity	IS 3025 (Part 10)