



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name NATIONAL ANALYTICAL LABORATORIES AND RESEARCH CENTER, # 1064, 2ND FLOOR, RAJGOPAL NAGAR MAIN ROAD, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6599 Page No. : 1 / 12

Validity 18/01/2019 to 17/01/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Ammonia	Methods of air sampling & analysis 3rd edition part 2 (401): 2017	5.0 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
2	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Oxides of nitrogen	IS 5182(part 6) : 2017	9.0 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
3	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Ozone	Methods of air sampling & analysis 3rd edition part 2 (411): 2017	10 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
4	CHEMICAL-ATMOSPHERIC POLLUTION	AMBIENT AIR	PM 10	IS 5182(part 23): 2017	10 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
5	CHEMICAL-ATMOSPHERIC POLLUTION	AMBIENT AIR	PM 2.5	NALRC/SOP/Air/10: 2017	15 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
6	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Sulphur dioxide	IS 5182(part 2) 2001 : 2017	4.0 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
7	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient noise	Ambient noise	IS 9989:1981 : 2014	30 dB to 130 dB
8	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Oxides of Nitrogen	IS 11255(part 7) : 2017	4.0 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
9	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide	IS 11255(part 2) 1985 : 2014	5.0 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>



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Certificate Number TC-6599 Page No. : 2 / 12

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10	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate matter	IS 11255(part 1)1985 : 2014	10 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>
11	CHEMICAL- CORROSION TESTS	Salt spray test	Corrosion test	ASTM B 117: 2016	Qualitative
12	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 228 (Part 1): 2018	0.1 % to 2.5 %
13	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 228 (Part 6): 2014	0.5 % to 28.0 %
14	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 228 (Part 2 ) : 2018	0.1 % to 7.0 %
15	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 228 (Part 7): 2018	1.0 % to 10.0 %
16	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 228 (Part 5) : 2014	0.05 % to 36.0 %
17	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous	IS 228 (Part 3) : 2018	0.01 % to 0.25 %
18	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 228 (Part 9) : 2014	0.01 % to 0.25 %
19	CHEMICAL- METALS & ALLOYS	Steel	Carbon	IS 228 (Part 1) : 2018	0.025 % to 2.5 %
20	CHEMICAL- METALS & ALLOYS	Steel	Chromium	IS 228 (Part 6) : 2014	0.05 % to 35 %
21	CHEMICAL- METALS & ALLOYS	Steel	Copper	IS 228(Part 15) : 2014	0.05 % to 5.0 %
22	CHEMICAL- METALS & ALLOYS	Steel	Manganese	IS 228 (Part 2 ) : 2018	0.1 % to 1.5 %
23	CHEMICAL- METALS & ALLOYS	Steel	Molybdenum	IS 228 (Part 7): 2018	0.05 % to 1.5 %



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6599 Page No. : 3 / 12

Validity 18/01/2019 to 17/01/2021 Last Amended on -

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24	CHEMICAL- METALS & ALLOYS	Steel	Nickel	IS 228 (Part 5) : 2014	0.05 % to 45 %
25	CHEMICAL- METALS & ALLOYS	Steel	Phosphorous	IS 228 (Part 3) : 2018	0.01 % to 0.25 %
26	CHEMICAL- METALS & ALLOYS	Steel	Sulphur	IS 228 (Part 9) : 2014	0.01 % to 0.25 %
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Ammonical Nitrogen	IS 3025 (part 34) : 2014	1 mg/l to 500 mg/l
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biochemical Oxygen Demand	IS 3025 (part 44) : 2014	3 mg/l to 5000 mg/l
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Boron	APHA 23 rd edition 4500 B B: 2017	0.1 mg/l to 10 mg/l
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium	IS 3025 Part 40: 2014	1 mg/l to 3000 mg/l
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand	IS 3025 (part 58) : 2017	4 mg/l to 50000 mg/l
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chloride	IS 3025 (part 32) : 2014	1 mg/l to 5000 mg/l
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Color	IS 3025 (part 04) : 2017	1 Hazen unit to 500 Hazen unit
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Conductivity	IS 3025 (part 14): 2013	1 µs/cm to 50000 µs/cm



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6599 Page No. : 4 / 12

Validity 18/01/2019 to 17/01/2021 Last Amended on -

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35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Dissolved Oxygen	IS 3025 (part 38) : 2014	0.2 mg/l to 8.5 mg/l
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Hexavalent chromium as Cr6+	APHA 23 rd edition 3500 Cr-B : 2017	0.05 mg/l to 20 mg/l
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Iron as Fe	APHA 23 rd edition 3500Fe B: 2017	0.05 mg/l to 50 mg/l
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Magnesium	IS 3025 Part 46: 2014	1 mg/l to 2000 mg/l
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nitrate	IS 3025 (part-34) : 2014	0.1 mg/l to 50 mg/l
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Odor	IS 3025 (part 5): 2017	Qualitative
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Oil & Grease	IS 3025 (part 39): 2014	2 mg/l to 100 mg/l
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	pH Value	IS 3025 (part 11) : 2017	2.0 to 12.0
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phosphate	IS 3025 (part-31) : 2014	0.1 mg/l to 50 mg/l
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Potassium	IS 3025 (part 45): 2014	1 mg/l to 500 mg/l



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6599 Page No. : 5 / 12

Validity 18/01/2019 to 17/01/2021 Last Amended on -

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45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Residual Free Chlorine	IS 3025 (part 26): 2014	0.2 mg/l to 100 mg/l
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Residual sodium carbonate	IS 11624-1986: 2015	0.1 m.eq/l to 20 m.eq/l
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sodium	IS 3025 (part 45): 2014	1 mg/l to 500 mg/l
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sodium absorption ratio	IS:11624: 2015	1 to 100
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphate	APHA 23 rd edition 4500 SO4 2- E : 2017	1 mg/l to 1000 mg/l
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Alkalinity	IS 3025 (part 23) : 2014	1 mg/l to 5000 mg/l
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolved Solids	IS 3025 (part 16) : 2017	5 mg/l to 20000 mg/l
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Hardness	IS 3025 Part 21 : 2014	1 mg/l to 5000 mg/l
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Nitrogen	IS 3025 Part 34, : 2014	1 mg/l to 1000 mg/l
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Solids	IS 3025 (part 15): 2014	5 mg/l to 30000 mg/l



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6599 Page No. : 6 / 12

Validity 18/01/2019 to 17/01/2021 Last Amended on -

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55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	IS 3025 (part 17) : 2017	2.5 mg/l to 5000 mg/l
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Turbidity	IS 3025 (part 10): 2017	1 NTU to 100 NTU
57	CHEMICAL- WATER	Ground Water	Boron	APHA 23 rd edition 4500 B B: 2017	0.1 mg/L to 10 mg/L
58	CHEMICAL- WATER	Ground Water	Total Alkalinity	IS 3025 (part 23) : 2014	1 mg/L to 5000 mg/L
59	CHEMICAL- WATER	Ground Water	Copper	IS 3025 (part-42) : 2014	0.1 mg/l to 10 mg/l
60	CHEMICAL- WATER	Ground Water	Fluoride	APHA 23 rd edition 4500 F D: 2017	0.1 mg/l to 20 mg/l
61	CHEMICAL- WATER	Ground Water	Iron	APHA 23 rd edition 3500Fe B: 2017	0.05 mg/l to 50 mg/l
62	CHEMICAL- WATER	Ground Water	Nitrate	IS 3025 (part-34) : 2014	0.1 to 50
63	CHEMICAL- WATER	Swimming pool water	Chloride	IS 3025 (part 32) : 2014	1.0 mg/l to 5000 mg/l
64	CHEMICAL- WATER	Swimming pool water	Colour	IS 3025 (part 04) : 2017	1.0 <p align="center">Hazen unit to 500.0 <p align="center">Hazen unit
65	CHEMICAL- WATER	Swimming pool water	Odour	IS 3025 (part 5): 2017	Qualitative
66	CHEMICAL- WATER	Drinking water	Boron	APHA 23 rd edition 4500 B B: 2017	0.1 mg/l to 10.0 mg/l
67	CHEMICAL- WATER	Drinking water	CALCIUM	IS 3025 Part 40: 2014	1.0 mg/l to 3000 mg/l





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Certificate Number TC-6599 Page No. : 7 / 12

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68	CHEMICAL- WATER	Drinking water	Chloride	IS 3025 (part 32) : 2014	1.0 mg/l to 5000 mg/l
69	CHEMICAL- WATER	Drinking water	Color	IS 3025 (part 04) : 2017	1.0 <p align="center">Hazen unit to 500 <p align="center">Hazen unit
70	CHEMICAL- WATER	Drinking water	Conductivity	IS 3025 (part 14): 2013	1 µs/cm to 25000 µs/cm
71	CHEMICAL- WATER	Drinking water	Copper	S 3025 (part-42) : 2014	0.1 mg/l to 10.0 mg/l
72	CHEMICAL- WATER	Drinking water	Fluoride	APHA 23 rd edition 4500 F D: 2017	0.1 mg/l to 20.0 mg/l
73	CHEMICAL- WATER	Drinking water	Hexavalent chromium as Cr6+	APHA 23 rd edition 3500 Cr-B : 2017	0.05 mg/l to 20.0 mg/l
74	CHEMICAL- WATER	Drinking water	Iron	APHA 23 rd edition 3500Fe B: 2017	0.05 mg/l to 50.0 mg/l
75	CHEMICAL- WATER	Drinking water	Magnesium	IS Part 46: 1994: 2014	1.0 mg/l to 2000 mg/l
76	CHEMICAL- WATER	Drinking water	Manganese	IS 3025 (part-59) : 2017	0.1 mg/l to 25.0 mg/l
77	CHEMICAL- WATER	Drinking water	Nitrate	IS 3025 (part-34) : 2014	0.1 to 50
78	CHEMICAL- WATER	Drinking water	Nitrate	IS 3025 (part-34) 1988 , Cadmium reduction method: 2014	0.1 mg/l to 50.0 mg/l
79	CHEMICAL- WATER	Drinking water	Odor	IS 3025 (part 5): 2017	Qualitative
80	CHEMICAL- WATER	Drinking Water	pH Value	IS 3025 (part 11) : 2017	2.0 to 12.0



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6599 Page No. : 8 / 12

Validity 18/01/2019 to 17/01/2021 Last Amended on -

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81	CHEMICAL- WATER	Drinking water	Phosphate	IS 3025 (part-31) : 2014	0.1 mg/l to 10.0 mg/l
82	CHEMICAL- WATER	Drinking water	Residual Free Chlorine	IS 3025 (part-26) : 2014	0.2 mg/l to 100 mg/l
83	CHEMICAL- WATER	Drinking water	Sulphate	APHA 23 rd edition 4500 SO4 2- E: 2017	1.0 mg/l to 1000 mg/l
84	CHEMICAL- WATER	Drinking water	Temperature	IS 3025 Part 9: 2017	20.0 <sup>0</sup> C to 40.0 <sup>0</sup> C
85	CHEMICAL- WATER	Drinking water	Total Alkalinity	IS 3025 (part 23): 2014	1.0 mg/l to 5000 mg/l
86	CHEMICAL- WATER	Drinking water	Total Dissolved Solids	IS 3025 (part 16) : 2014	3.0 mg/l to 20000 mg/l
87	CHEMICAL- WATER	Drinking water	Total Hardness	IS 3025 Part 21 : 2014	1.0 mg/l to 5000 mg/l
88	CHEMICAL- WATER	Drinking water	Turbidity	IS 3025 (part 10) : 2017	0.1 NTU to 100 NTU
89	CHEMICAL- WATER	Ground Water	Calcium	IS 3025 Part 40: 2014	1 <font &gt;mg="" 3000="" <font="" face="Times New Roman, serif" font&gt;="" font&gt;<="" l&lt;="" td="" to=""></font>
90	CHEMICAL- WATER	Ground Water	Chloride	IS 3025 (part 32) : 2014	1 mg/L to 5000 mg/L





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Certificate Number TC-6599 Page No. : 9 / 12

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91	CHEMICAL- WATER	Ground Water	Color	IS 3025 (part 04) : 2017	1 <p align="center"> <b>Hazen unit</b> <p align="center"> to 500 <p align="center"> <b>Hazen unit</b> <p align="center">
92	CHEMICAL- WATER	Ground Water	Conductivity	IS 3025 (part 14): 2013	1 µs/cm to 25000 µs/cm
93	CHEMICAL- WATER	Ground Water	Hexavalent chromium as Cr6	APHA 23 rd edition 3500 Cr-B : 2017	0.05 mg/l to 20 mg/l
94	CHEMICAL- WATER	Ground Water	Magnesium	IS Part 46: 1994: 2014	1 mg/L to 2000 mg/L
95	CHEMICAL- WATER	Ground Water	Manganese	IS 3025 (part-59): 2017	0.1 mg/l to 25 mg/l
96	CHEMICAL- WATER	Ground Water	Nitrate	IS 3025 (part-34) 1988 , Cadmium reduction method : 2014	0.1 mg/L to 10 mg/L
97	CHEMICAL- WATER	Ground Water	Odor	IS 3025 (part 5): 2017	Qualitative
98	CHEMICAL- WATER	Ground Water	pH Value	IS 3025 (part 11) : 2017	2.0 to 12.0
99	CHEMICAL- WATER	Ground Water	Phosphate	IS 3025 (part-31) : 2014	0.1 mg/l to 10 mg/l
100	CHEMICAL- WATER	Ground Water	Residual Free Chlorine	IS 3025 (part-26) : 2014	0.2 mg/l<!-- EndFragment--> to 100 mg/l<!-- EndFragment-->
101	CHEMICAL- WATER	Ground Water	Sulphate	APHA 23 rd edition 4500 SO4 2- E: 2017	1 mg/L to 1000 mg/L
102	CHEMICAL- WATER	Ground Water	Temperature	IS 3025 Part 9: 2017	20 0C to 40 0C



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Certificate Number TC-6599 Page No. : 10 / 12

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103	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025 (part 16) : 2017	3 mg/l<!-- EndFragment--> to 20000 mg/l<!-- EndFragment-->
104	CHEMICAL- WATER	Ground Water	Total Hardness	IS 3025 Part 21 : 2014	1 mg/l<!-- EndFragment--> to 5000 mg/l<!-- EndFragment-->
105	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (part 10) : 2017	0.1 NTU to 100 NTU
106	CHEMICAL- WATER	Surface Water	Boron	APHA 23 rd edition 4500 B B: 2017	0.1 mg/l to 10 mg/l
107	CHEMICAL- WATER	Surface Water	Calcium	IS 3025 Part 40: 2014	1 mg/l to 3000 mg/l
108	CHEMICAL- WATER	Surface Water	Chloride	IS 3025 (part 32) : 2014	1 mg/l to 5000 mg/l
109	CHEMICAL- WATER	Surface Water	Color	IS 3025 (part 04) : 2017	1 <p align="center"> <b>Hazen unit</b> <!-- EndFragment--> to 500 <b style="text-align: center;">Hazen unit
110	CHEMICAL- WATER	Surface Water	Conductivity	IS 3025 (part 14): 2013	1 µs/cm<!-- EndFragment--> to 25000 µs/cm
111	CHEMICAL- WATER	Surface Water	Copper	IS 3025 (part-42) : 2014	0.1 mg/l to 10 mg/l
112	CHEMICAL- WATER	Surface Water	Fluoride	APHA 23 rd edition 4500 F D: 2017	0.1 mg/l to 20 mg/l



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Certificate Number TC-6599 Page No. : 11 / 12

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113	CHEMICAL- WATER	Surface Water	Hexavalent chromium as Cr6+	APHA 23 rd edition 3500 Cr-B : 2017	0.05 mg/l to 20 mg/l
114	CHEMICAL- WATER	Surface Water	Iron	APHA 23 rd edition 3500Fe B: 2017	0.05 mg/l to 50 mg/l
115	CHEMICAL- WATER	Surface Water	Magnesium	IS Part 46: 1994: 2014	1 mg/l to 2000 mg/l
116	CHEMICAL- WATER	Surface Water	Manganese	IS 3025 (part-59) : 2017	0.1 mg/l to 25 mg/l
117	CHEMICAL- WATER	Surface Water	Nitrate	IS 3025 (part-34) , Cadmium reduction method : 2014	0.1 mg/l to 50 mg/l
118	CHEMICAL- WATER	Surface Water	Nitrate	IS 3025 (part-34) 1988, Chromotropic Acid method : 2014	0.1 mg/l to 50 mg/l
119	CHEMICAL- WATER	Surface Water	Odor	IS 3025 (part 5): 2017	Qualitative
120	CHEMICAL- WATER	Surface Water	pH Value	IS 3025 (part 11) : 2017	2.0 to 12.0
121	CHEMICAL- WATER	Surface Water	Phosphate	IS 3025 (part-31) : 2014	0.1 mg/l to 50 mg/l
122	CHEMICAL- WATER	Surface Water	Residual Free Chlorine	IS 3025 (part-26) : 2014	0.2 mg/L to 100 mg/L
123	CHEMICAL- WATER	Surface Water	Sulphate	APHA 23 rd edition 4500 SO4 2- E: 2017	1 mg/l to 500 mg/l
124	CHEMICAL- WATER	Surface Water	Temperature	IS 3025 Part 9: 2017	20 <sup>0</sup>C to 40 <sup>0</sup>C
125	CHEMICAL- WATER	Surface Water	Total Alkalinity	IS 3025 (part 23) : 2014	1 mg/l to 5000 mg/l



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126	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025 (part 16) : 2017	3 mg/l<!-- EndFragment--> to 20000 mg/l
127	CHEMICAL- WATER	Surface Water	Total Hardness	IS 3025 Part 21 : 2014	1 mg/l to 5000 mg/l
128	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (part 10) : 2017	0.1 NTU to 100 NTU
129	CHEMICAL- WATER	Swimming pool water	Dissolved Oxygen	IS 3025 (part 38) : 2014	1 mg/l to 10 mg/l
130	CHEMICAL- WATER	Swimming pool water	Iron	APHA 23 rd edition 3500Fe B: 2017	0.05 mg/l to 50 mg/l
131	CHEMICAL- WATER	Swimming pool water	pH	IS 3025 (part 11): 2017	2.0 to 12.0
132	CHEMICAL- WATER	Swimming pool water	Residual Free Chlorine	IS 3025 (part-26) : 2014	0.2 mg/l to 100 mg/l
133	CHEMICAL- WATER	Swimming pool water	Total Alkalinity	IS 3025 (part 23) : 2014	1 mg/l to 5000 mg/l
134	CHEMICAL- WATER	Swimming pool water	Total Dissolved Solids	IS 3025 (part 16) : 2017	3.0 mg/l to 5000 mg/l
135	CHEMICAL- WATER	Swimming pool water	Turbidity	IS 3025 (part 10): 2017	0.1 NTU to 100 NTU