



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PRISM TEST AND MEASURE PVT. LTD., F-101, RUDRAKSH COMPLEX-II, PHASE-III, AHMEDABAD, GUJARAT , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8402 Page No. : 1 / 21

Validity 20/03/2019 to 19/03/2021 Last Amended on -

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

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
Permanent Facility					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	NO2	IS 5182 (Part 6): 2018	5 µg/m ³ to 100 µg/m ³
2	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	PM10	IS 5182 (Part 23): 2018	5 µg/m ³ to 500 µg/m ³
3	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	PM2.5	CPCB GUIDELINE VOL 1: 2018	5 µg/m ³ to 200 µg/m ³
4	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	SO2	IS 5182 (Part 2): 2018	5 µg/m ³ to 100 µg/m ³
5	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Noise Level Monitoring	Leq, Lmax, Lmin	IS 9989:1981 RA: 2018	30 dB(A) to 130 dB(A)
6	CHEMICAL-ATMOSPHERIC POLLUTION	Process/Vent Emission	NOx	IS 11255 (Part 7): 2018	5 mg/Nm ³ to 500 mg/Nm ³
7	CHEMICAL-ATMOSPHERIC POLLUTION	Process/Vent Emission	SO2	IS 11255 (Part 2): 2018	5 mg/Nm ³ to 500 mg/Nm ³
8	CHEMICAL-ATMOSPHERIC POLLUTION	Process/Vent Emissions	Particulate Matter as PM	IS 11255 (Part 1): 2018	5 mg/Nm ³ to 2000 mg/Nm ³
9	CHEMICAL-ATMOSPHERIC POLLUTION	Source Noise Monitoring	Leq, Lmax, Lmin	IS 9989:1981 RA: 2018	30 dBA to 130 dBA



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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
10	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	NOx	IS 11255 (Part 7) : 2018	5 mg/Nm ³ to 500 mg/Nm ³
11	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter as PM	IS 11255 (Part 1): 2018	5 mg/Nm ³ to 2000 mg/Nm ³
12	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	SO ₂	IS 11255 (Part 2) : 2018	5 mg/Nm ³ to 500 mg/Nm ³
13	CHEMICAL-ATMOSPHERIC POLLUTION	Work Place Monitoring	NO ₂	IS 5182 (Part 6) : 2018	5 µg/m ³ to 100 µg/m ³
14	CHEMICAL-ATMOSPHERIC POLLUTION	Work Place Monitoring	PM 10	IS 5182 (Part 23): 2018	4 µg/m ³ to 500 µg/m ³
15	CHEMICAL-ATMOSPHERIC POLLUTION	Work Place Monitoring	PM _{2.5}	CPCB Guidelines Vol. I: 2018	4 µg/m ³ to 200 µg/m ³
16	CHEMICAL-ATMOSPHERIC POLLUTION	Work Place Monitoring	SO ₂	IS 5182 (Part 2): 2018	5 µg/m ³ to 100 µg/m ³
17	CHEMICAL-POLLUTION & ENVIRONMENT	Sludge	Ammoniacal Nitrogen	IS 14684: 1999	5 mg/l to 1000 mg/l
18	CHEMICAL-POLLUTION & ENVIRONMENT	Sludge	Available Calcium as Ca	EHS/SOP/03, Section 19, Date:1-4: 2018	5 mg/kg to 2000 mg/kg



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19	CHEMICAL-POLLUTION & ENVIRONMENT	Sludge	Available Chloride as Cl-	EHS/SOP/03, Section 16, 1-4: 2018	2.0 mg/kg to 1000 mg/kg
20	CHEMICAL-POLLUTION & ENVIRONMENT	Sludge	Available Magnesium as Mg	EHS/SOP/03, Section 19, Dated 1-4: 2018	5 mg/kg to 2000 mg/kg
21	CHEMICAL-POLLUTION & ENVIRONMENT	Sludge	Moisture	IS 2720 (Part 2): 1973 RA: 2010	1 % to 90 %
22	CHEMICAL-POLLUTION & ENVIRONMENT	Sludge	pH	IS 2720(Part 26): 1987 RA: 1997	1 to 13.9
23	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Available Calcium as Ca	EHS/SOP/03, Section 19, Dated 1-4: 2018	5 mg/kg to 2000 mg/kg
24	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Available Chloride as Cl-	EHS/SOP/03, Section 16, Dated:1-4: 2018	2.0 mg/kg to 1000 mg/kg
25	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Available Magnesium as Mg	EHS/SOP/03, Section 19, Dated 1-4: 2018	5 mg/kg to 2000 mg/kg
26	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Available nitrogen	IS 14684: 1999	5 mg/kg to 1000 mg/kg
27	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Available Phosphorus as P	EHS/SOP/03, Section 15, Phosphorus, 1-4: 2018	5 mg/kg to 100 mg/kg



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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
28	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Bulk Density	IS 2720 (Part 8):1983 RA: 1995	1 g/cc to 2.0 g/cc
29	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Electrical Conductivity	IS 14767: 2000	0.1 μ S/cm to 200 mS/cm
30	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Moisture	IS 2720 (Part 2): 1973 RA: 2010	1 % to 90 %
31	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Organic Carbon	IS 2720 (Part 22): 1995 RA: 2001	0.1 % to 30 %
32	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Organic Matter	IS 2720 (Part 22): 1995 RA: 2001	0.1 % to 30 %
33	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	pH	IS 2720 (Part 26): 1987 RA: 1997	1 to 13.9
34	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Potassium as K	EHS/SOP/03, Section 17, Issue Date : 1-4: 2018	0.5 mg/kg to 500 mg/kg
35	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Sodium as Na	APHA, 23rd Edition 2012/3500-Na -B: 2017	0.5 mg/kg to 500 mg/kg
36	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Total Nitrogen	IS 14684: 1999	5 mg/kg to 1000 mg/kg



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37	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Acidity as CaCO ₃	APHA, 23rd Edition: 2017	2 mg/l to 1000 mg/l
38	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonical Nitrogen as NH ₃ -N	APHA, 23rd Edition: 2017	1 mg/l to 500 mg/l
39	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Bio Chemical Oxygen Demand @ 20 °C for 5 Days	APHA, 23rd Edition: 2017	2 mg/l to 50000 mg/l
40	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Bio Chemical Oxygen Demand @ 27 °C for 3 Days	IS 3025 (Part 44):1993: 2009	2 mg/l to 50000 mg/l
41	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Boron	APHA, 23rd Edition: 2017	0.5 mg/l to 10 mg/l
42	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium as Ca	APHA, 23rd Edition: 2017	1 mg/l to 1000 mg/l
43	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium as Hardness	APHA, 23rd Edition: 2017	1 mg/l to 1000 mg/l
44	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand	APHA, 23rd Edition: 2017	4 mg/l to 500000 mg/l
45	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride	APHA, 23rd Edition: 2017	1 mg/l to 2000 mg/l



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46	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Color	APHA, 23rd Edition : 2017	1 CU to 500 CU
47	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	APHA, 23rd Edition: 2017	1 mg/l to 8 mg/l
48	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Electrical Conductivity	APHA, 23rd Edition : 2017	1 μ S/cm to 200 mS/cm
49	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride	APHA, 23rd Edition: 2017	1 mg/l to 10 mg/l
50	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hexa valent Chromium as Cr+6	APHA, 23rd Edition: 2017	0.1 mg/l to 20 mg/l
51	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Iron	APHA, 23rd Edition: 2017	0.1 mg/l to 50 mg/l
52	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Magnesium as Hardness	APHA, 23rd Edition: 2017	1 mg/l to 1000 mg/l
53	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Magnesium as Mg	APHA, 23rd Edition: 2017	1 mg/l to 1000 mg/l
54	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	MLSS (Mixed Liquor Suspended Solids)	APHA, 23rd Edition: 2017	1 mg/l to 5000 mg/l



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55	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	MLVSS (Mixed Liquor Volatile Suspended Solids)	APHA, 23rd Edition: 2017	1 mg/l to 5000 mg/l
56	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil & Grease	APHA, 23rd Edition: 2017	1 mg/l to 1000 mg/l
57	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	APHA, 23rd Edition : 2017	1 to 13.5
58	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphate	APHA, 23rd Edition: 2017	0.02 mg/l to 50 mg/l
59	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium	APHA, 23rd Edition: 2017	1 mg/l to 1000 mg/l
60	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Reactive Silica as SiO ₂	APHA, 23rd Edition: 2017	1 mg/l to 100 mg/l
61	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Residual Chlorine	APHA, 23rd Edition: 2017	1 mg/l to 20 mg/l
62	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	SAR (Sodium Absorption Ratio)	IS 11624: 1986 RA: 2009	1 to 1000
63	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium	APHA, 23rd Edition: 2017	1 mg/l to 1000 mg/l



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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
64	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate	APHA, 23rd Edition: 2017	1 mg/l to 1000 mg/l
65	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	APHA, 23rd Edition: 2017	10 °C to 70 °C
66	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Alkalinity as CaCO ₃	APHA, 23rd Edition: 2017	2 mg/l to 1000 mg/l
67	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	APHA, 23rd Edition : 2017	5 mg/l to 10000 mg/l
68	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Hardness as CaCO ₃	APHA, 23rd Edition : 2017	1 mg/l to 2000 mg/l
69	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Kjeldahl Nitrogen	APHA, 23rd Edition: 2017	1 mg/l to 500 mg/l
70	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Solids	APHA, 23rd Edition: 2017	5 mg/l to 10000 mg/l
71	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
72	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Turbidity	APHA, 23rd Edition: 2017	0.1 NTU to 1000 NTU
73	CHEMICAL- WATER	Construction Water	Acidity as CaCO ₃	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l



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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
74	CHEMICAL- WATER	Construction Water	Chloride as Cl	APHA, 23rd Edition: 2017	5 mg/l to 2000 mg/l
75	CHEMICAL- WATER	Construction Water	pH	APHA, 23rd Edition: 2017	1 to 13.5
76	CHEMICAL- WATER	Construction Water	Sulphate as SO4	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
77	CHEMICAL- WATER	Construction Water	Total Alkalinity as CaCO3	APHA, 23rd Edition: 2017	10 mg/l to 1000 mg/l
78	CHEMICAL- WATER	Construction Water	Total Dissolved Solids	APHA, 23rd Edition: 2017	5.0 mg/l to 10000 mg/l
79	CHEMICAL- WATER	Construction Water	Total Suspended Solids	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
80	CHEMICAL- WATER	Drinking Water	Acidity as CaCO3	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
81	CHEMICAL- WATER	Drinking Water	Ammonical Nitrogen as NH3-N	APHA, 23rd Edition: 2017	1 mg/l to 100 mg/l
82	CHEMICAL- WATER	Drinking Water	Bio Chemical Oxygen Demand @ 20 °C for 5 Days	APHA, 23rd Edition: 2017	2 mg/l to 50000 mg/l
83	CHEMICAL- WATER	Drinking Water	Bio Chemical Oxygen Demand @ 27 °C for 3 Days	APHA, 23rd Edition 2012/5210- B: 2009	2 mg/l to 50000 mg/l
84	CHEMICAL- WATER	Drinking Water	Boron	APHA, 23rd Edition: 2017	0.50 mg/l to 10 mg/l
85	CHEMICAL- WATER	Drinking Water	Calcium as Ca	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
86	CHEMICAL- WATER	Drinking Water	Calcium as Hardness	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l



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87	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand	APHA, 23rd Edition: 2017	4 mg/l to 100000 mg/l
88	CHEMICAL- WATER	Drinking Water	Chloride as Cl	APHA, 23rd Edition: 2017	5 mg/l to 2000 mg/l
89	CHEMICAL- WATER	Drinking Water	Color	APHA, 23rd Edition: 2017	1 CU to 500 CU
90	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	APHA, 23rd Edition: 2017	1 mg/l to 10 mg/l
91	CHEMICAL- WATER	Drinking Water	Electrical Conductivity	APHA, 23rd Edition: 2017	1 μ S/cm to 200 mS/cm
92	CHEMICAL- WATER	Drinking Water	Fluoride	APHA, 23rd Edition: 2017	0.1 mg/l to 10 mg/l
93	CHEMICAL- WATER	Drinking Water	Hexavalent Chromium	APHA, 23rd Edition: 2017	0.2 mg/l to 20 mg/l
94	CHEMICAL- WATER	Drinking Water	Iron as Fe	APHA, 23rd Edition: 2017	1 mg/l to 50 mg/l
95	CHEMICAL- WATER	Drinking Water	Magnesium as Hardness	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
96	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
97	CHEMICAL- WATER	Drinking Water	pH	APHA, 23rd Edition: 2017	1 to 13.5
98	CHEMICAL- WATER	Drinking Water	Phosphate as PO ₄	APHA, 23rd Edition: 2017	0.1 mg/l to 50 mg/l
99	CHEMICAL- WATER	Drinking Water	Potassium	APHA, 23rd Edition: 2017	1 mg/l to 500 mg/l
100	CHEMICAL- WATER	Drinking Water	Reactive Silica as SiO ₂	APHA, 23rd Edition: 2017	1 mg/l to 100 mg/l

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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101	CHEMICAL- WATER	Drinking Water	Residual Chlorine	APHA, 23rd Edition: 2017	1 mg/l to 20 mg/l
102	CHEMICAL- WATER	Drinking Water	Sodium	APHA, 23rd Edition: 2017	1 mg/l to 1000 mg/l
103	CHEMICAL- WATER	Drinking Water	Sulphate as SO ₄	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
104	CHEMICAL- WATER	Drinking Water	Temperature	APHA, 23rd Edition: 2017	10 °C to 70 °C
105	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO ₃	APHA, 23rd Edition: 2017	10 mg/l to 1000 mg/l
106	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA, 23rd Edition: 2017	5 mg/l to 10000 mg/l
107	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO ₃	APHA, 23rd Edition: 2017	5 mg/l to 2000 mg/l
108	CHEMICAL- WATER	Drinking Water	Total Kjeldahl Nitrogen	APHA, 23rd Edition: 2017	1 mg/l to 100 mg/l
109	CHEMICAL- WATER	Drinking Water	Total Solids	APHA, 23rd Edition: 2017	5.0 mg/l to 10000 mg/l
110	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	APHA, 23rd Edition: 2017	5.0 mg/l to 1000 mg/l
111	CHEMICAL- WATER	Drinking Water	Turbidity	APHA, 23rd Edition: 2017	1 NTU to 1000 NTU
112	CHEMICAL- WATER	Ground Water	Acidity as CaCO ₃	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
113	CHEMICAL- WATER	Ground Water	Ammonical Nitrogen as NH ₃ -N	APHA, 23rd Edition : 2017	1 mg/l to 100 mg/l



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114	CHEMICAL- WATER	Ground Water	Bio Chemical Oxygen Demand @ 20 °C for 5 Days	APHA, 23rd Edition 2012/5210- B: 2017	2 mg/l to 50000 mg/l
115	CHEMICAL- WATER	Ground Water	Bio Chemical Oxygen Demand @ 27 °C for 3 Days	IS 3025 (Part 44):1993: 2009	2 mg/l to 50000 mg/l
116	CHEMICAL- WATER	Ground Water	Boron	APHA, 23rd Edition : 2017	0.5 mg/l to 10 mg/l
117	CHEMICAL- WATER	Ground Water	Calcium as Ca	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
118	CHEMICAL- WATER	Ground Water	Calcium as Hardness	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
119	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand	APHA, 23rd Edition: 2017	4 mg/l to 100000 mg/l
120	CHEMICAL- WATER	Ground Water	Chloride	APHA, 23rd Edition: 2017	5 mg/l to 2000 mg/l
121	CHEMICAL- WATER	Ground Water	Color	APHA, 23rd Edition: 2017	1 CU to 500 CU
122	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	APHA, 23rd Edition : 2017	1 mg/l to 10 mg/l
123	CHEMICAL- WATER	Ground Water	Electrical Conductivity	APHA, 23rd Edition : 2017	1 µS/cm to 200 mS/cm
124	CHEMICAL- WATER	Ground Water	Fluoride	APHA, 23rd Edition : 2017	0.1 mg/l to 10 mg/l
125	CHEMICAL- WATER	Ground Water	Hexavalent Chromium	APHA, 23rd Edition: 2017	0.2 mg/l to 20 mg/l
126	CHEMICAL- WATER	Ground Water	Iron	APHA, 23rd Edition: 2017	1.0 mg/l to 50 mg/l

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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
127	CHEMICAL- WATER	Ground Water	Magnesium as Hardness	APHA 23rd Edition: 2017	5 mg/l to 1000 mg/l
128	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA 23rd edition: 2017	5 mg/l to 1000 mg/l
129	CHEMICAL- WATER	Ground Water	pH	APHA, 23rd Edition: 2017	1 to 13.5
130	CHEMICAL- WATER	Ground Water	Phosphate as PO4	APHA, 23rd Edition: 2017	0.1 mg/l to 50 mg/l
131	CHEMICAL- WATER	Ground Water	Potassium	APHA, 23rd Edition: 2017	5 mg/l to 500 mg/l
132	CHEMICAL- WATER	Ground Water	Residual Chlorine	APHA, 23rd Edition : 2017	1 mg/l to 20 mg/l
133	CHEMICAL- WATER	Ground Water	Sodium	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
134	CHEMICAL- WATER	Ground Water	Sulphate	APHA, 23rd Edition 2012: 2017	1 mg/l to 1000 mg/l
135	CHEMICAL- WATER	Ground Water	Temperature	APHA, 23rd Edition : 2017	10 °C to 70 °C
136	CHEMICAL- WATER	Ground Water	Total Alkalinity as CaCO3	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
137	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA, 23rd Edition: 2017	5 mg/l to 10000 mg/l
138	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	APHA 23rd Edition: 2017	5 mg/l to 2000 mg/l
139	CHEMICAL- WATER	Ground Water	Total Kjeldahl Nitrogen	APHA, 23rd Edition : 2017	1 mg/l to 100 mg/l
140	CHEMICAL- WATER	Ground Water	Total Solids	APHA, 23rd Edition: 2017	5 mg/l to 10000 mg/l

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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
141	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
142	CHEMICAL- WATER	Ground Water	Turbidity	APHA, 23rd Edition: 2017	1 NTU to 1000 NTU
143	CHEMICAL- WATER	Industrial Water	Acidity as CaCO ₃	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
144	CHEMICAL- WATER	Industrial Water	Ammonical Nitrogen as NH ₃ -N	APHA, 23rd Edition: 2017	1 mg/l to 100 mg/l
145	CHEMICAL- WATER	Industrial Water	Bio Chemical Oxygen Demand @ 20 °C for 5 Days	APHA, 23rd Edition: 2017	2 mg/l to 50000 mg/l
146	CHEMICAL- WATER	Industrial Water	Bio Chemical Oxygen Demand @ 27 °C for 3 Days	IS 3025 (Part 44):1993: 2009	2 mg/l to 50000 mg/l
147	CHEMICAL- WATER	Industrial Water	Boron	APHA, 23rd Edition: 2017	0.5 mg/l to 10 mg/l
148	CHEMICAL- WATER	Industrial Water	Calcium as Ca	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
149	CHEMICAL- WATER	Industrial Water	Calcium as Hardness	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
150	CHEMICAL- WATER	Industrial Water	Chemical Oxygen Demand	APHA, 23rd Edition: 2017	4 mg/l to 100000 mg/l
151	CHEMICAL- WATER	Industrial Water	Chloride	APHA, 23rd Edition: 2017	5 mg/l to 2000 mg/l
152	CHEMICAL- WATER	Industrial Water	Color	APHA, 23rd Edition: 2017	1 CU to 500 CU
153	CHEMICAL- WATER	Industrial Water	Dissolved Oxygen	APHA, 23rd Edition: 2017	1 mg/l to 10 mg/l



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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
154	CHEMICAL- WATER	Industrial Water	Electrical Conductivity	APHA, 23rd Edition: 2017	1 µS/cm to 200 mS/cm
155	CHEMICAL- WATER	Industrial Water	Fluoride	APHA, 23rd Edition: 2017	0.1 mg/l to 10 mg/l
156	CHEMICAL- WATER	Industrial Water	Hexavalent Chromium as Cr+6	APHA, 23rd Edition: 2017	0.2 mg/l to 20 mg/l
157	CHEMICAL- WATER	Industrial Water	Iron	APHA, 23rd Edition: 2017	1 mg/l to 50 mg/l
158	CHEMICAL- WATER	Industrial Water	Magnesium as Hardness	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
159	CHEMICAL- WATER	Industrial Water	Magnesium as Mg	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
160	CHEMICAL- WATER	Industrial Water	pH	APHA, 23rd Edition: 2017	1 to 13.5
161	CHEMICAL- WATER	Industrial Water	Phosphate	APHA, 23rd Edition: 2017	0.1 mg/l to 50 mg/l
162	CHEMICAL- WATER	Industrial Water	Potassium	APHA, 23rd Edition: 2017	5 mg/l to 500 mg/l
163	CHEMICAL- WATER	Industrial Water	Reactive Silica as SiO ₂	APHA, 23rd Edition: 2017	1 mg/l to 100 mg/l
164	CHEMICAL- WATER	Industrial Water	Residual Chlorine	APHA, 23rd Edition: 2017	1 mg/l to 20 mg/l
165	CHEMICAL- WATER	Industrial Water	Sodium	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
166	CHEMICAL- WATER	Industrial Water	Sulphate	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
167	CHEMICAL- WATER	Industrial Water	Temperature	APHA, 23rd Edition: 2017	10 °C to 70 °C

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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
168	CHEMICAL- WATER	Industrial Water	Total Alkalinity as CaCO ₃	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
169	CHEMICAL- WATER	Industrial Water	Total Dissolved Solids	APHA, 23rd Edition: 2017	5 mg/l to 10000 mg/l
170	CHEMICAL- WATER	Industrial Water	Total Hardness as CaCO ₃	APHA, 23rd Edition: 2017	1 mg/l to 2000 mg/l
171	CHEMICAL- WATER	Industrial Water	Total Kjeldahl Nitrogen	APHA, 23rd Edition: 2017	5.0 mg/l to 100 mg/l
172	CHEMICAL- WATER	Industrial Water	Total solids	APHA, 23rd Edition: 2017	5 mg/l to 10000 mg/l
173	CHEMICAL- WATER	Industrial Water	Total Suspended solids	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
174	CHEMICAL- WATER	Industrial Water	Turbidity	APHA, 23rd Edition: 2017	1 NTU to 1000 NTU
175	CHEMICAL- WATER	Irrigation Water	Boron	APHA, 23rd Edition: 2017	0.5 mg/l to 10 mg/l
176	CHEMICAL- WATER	Irrigation Water	Electrical Conductivity	APHA, 23rd Edition: 2017	1 µS/cm to 200 mS/cm
177	CHEMICAL- WATER	Packaged Drinking Water	Calcium as Ca	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
178	CHEMICAL- WATER	Packaged Drinking Water	Chloride	APHA, 23rd Edition: 2017	5 mg/l to 2000 mg/l
179	CHEMICAL- WATER	Packaged Drinking Water	Color	APHA, 23rd Edition: 2017	1 CU to 500 CU
180	CHEMICAL- WATER	Packaged Drinking Water	Iron	APHA, 23rd Edition: 2017	1 mg/l to 50 mg/l
181	CHEMICAL- WATER	Packaged Drinking Water	Magnesium as Mg	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l

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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
182	CHEMICAL- WATER	Packaged Drinking Water	Oil & Grease	APHA, 23rd Edition: 2017	1 mg/l to 1000 mg/l
183	CHEMICAL- WATER	Packaged Drinking Water	pH	APHA, 23rd Edition: 2017	1 to 13.5
184	CHEMICAL- WATER	Packaged Drinking Water	Potassium	APHA, 23rd Edition: 2017	5 mg/l to 500 mg/l
185	CHEMICAL- WATER	Packaged Drinking Water	Residual Chlorine	APHA, 23rd Edition: 2017	1 mg/l to 10 mg/l
186	CHEMICAL- WATER	Packaged Drinking Water	Sodium	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
187	CHEMICAL- WATER	Packaged Drinking Water	Sulfate	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
188	CHEMICAL- WATER	Packaged Drinking Water	Total Alkalinity as CaCO ₃	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
189	CHEMICAL- WATER	Packaged Drinking Water	Total Dissolved Solids	APHA, 23rd Edition: 2017	5.0 mg/l to 10000 mg/l
190	CHEMICAL- WATER	Packaged Drinking Water	Total Kjeldahl Nitrogen as N	APHA, 23rd Edition: 2017	1 mg/l to 100 mg/l
191	CHEMICAL- WATER	Packaged Drinking Water	Turbidity	APHA, 23rd Edition: 2017	1 NTU to 1000 NTU
192	CHEMICAL- WATER	Surface Water	Acidity as CaCO ₃	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
193	CHEMICAL- WATER	Surface Water	Ammonical Nitrogen as NH ₃ -N	APHA, 23rd Edition: 2017	1 mg/l to 100 mg/l
194	CHEMICAL- WATER	Surface Water	Bio Chemical Oxygen Demand @ 20 °C for 5 Days	APHA, 23rd Edition: 2017	2 mg/l to 50000 mg/l



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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
195	CHEMICAL- WATER	Surface Water	Bio Chemical Oxygen Demand @ 27°C for 3 Days	IS 3025 (Part 44):1993 RA: 2009	2 mg/l to 50000 mg/l
196	CHEMICAL- WATER	Surface Water	Boron	APHA, 23rd Edition: 2017	0.5 mg/l to 10 mg/l
197	CHEMICAL- WATER	Surface Water	Calcium as Ca	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
198	CHEMICAL- WATER	Surface Water	Calcium as Hardness	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
199	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand	APHA, 23rd Edition: 2017	4 mg/l to 100000 mg/l
200	CHEMICAL- WATER	Surface Water	Chloride	APHA, 23rd Edition: 2017	5 mg/l to 2000 mg/l
201	CHEMICAL- WATER	Surface Water	Color	APHA, 23rd Edition: 2017	1 CU to 500 CU
202	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	APHA, 23rd Edition: 2017	1 mg/l to 10 mg/l
203	CHEMICAL- WATER	Surface Water	Electrical Conductivity	APHA, 23rd Edition: 2017	1 µS/cm to 200 mS/cm
204	CHEMICAL- WATER	Surface Water	Fluoride	APHA, 23rd Edition: 2017	0.1 mg/l to 10 mg/l
205	CHEMICAL- WATER	Surface Water	Hexa valent Chromium as Cr+6	APHA, 23rd Edition: 2017	0.1 mg/l to 20 mg/l
206	CHEMICAL- WATER	Surface Water	Iron	APHA, 23rd Edition: 2017	1 mg/l to 50 mg/l
207	CHEMICAL- WATER	Surface Water	Magnesium as Hardness	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l



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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
208	CHEMICAL- WATER	Surface Water	Magnesium as Mg	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
209	CHEMICAL- WATER	Surface Water	pH	APHA, 23rd Edition: 2017	1 to 13.5
210	CHEMICAL- WATER	Surface Water	Phosphate	APHA, 23rd Edition: 2017	0.1 mg/l to 50 mg/l
211	CHEMICAL- WATER	Surface Water	Potassium	APHA, 23rd Edition: 2017	5 mg/l to 500 mg/l
212	CHEMICAL- WATER	Surface Water	Reactive Silica as SiO ₂	APHA, 23rd Edition: 2017	1 mg/l to 100 mg/l
213	CHEMICAL- WATER	Surface Water	Sodium	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
214	CHEMICAL- WATER	Surface Water	Sulphate	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
215	CHEMICAL- WATER	Surface Water	Temperature	APHA, 23rd Edition: 2017	10 °C to 70 °C
216	CHEMICAL- WATER	Surface Water	Total Alkalinity as CaCO ₃	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
217	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA, 23rd Edition: 2017	5.0 mg/l to 10000 mg/l
218	CHEMICAL- WATER	Surface Water	Total Hardness as CaCO ₃	APHA, 23rd Edition: 2017	5 mg/l to 2000 mg/l
219	CHEMICAL- WATER	Surface Water	Total Kjeldahl Nitrogen as N	APHA, 23rd Edition: 2017	1 mg/l to 100 mg/l
220	CHEMICAL- WATER	Surface Water	Total Solids	APHA, 23rd Edition: 2017	5.0 mg/l to 10000 mg/l
221	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA, 23rd Edition: 2017	5.0 mg/l to 1000 mg/l

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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
222	CHEMICAL- WATER	Surface Water	Turbidity	APHA, 23rd Edition: 2017	1 NTU to 1000 NTU
223	CHEMICAL- WATER	Swimming Pool Water	Chloride	APHA, 23rd Edition: 2017	5 mg/l to 2000 mg/l
224	CHEMICAL- WATER	Swimming Pool Water	Color	APHA, 23rd Edition: 2017	1 CU to 500 CU
225	CHEMICAL- WATER	Swimming Pool Water	Dissolved Oxygen	APHA, 23rd Edition: 2017	1 mg/l to 10 mg/l
226	CHEMICAL- WATER	Swimming Pool Water	Iron	APHA, 23rd Edition: 2017	1 mg/l to 50 mg/l
227	CHEMICAL- WATER	Swimming Pool Water	pH	APHA, 23rd Edition: 2017	1 to 13.5
228	CHEMICAL- WATER	Swimming Pool Water	Residual Chlorine	APHA, 23rd Edition: 2017	1 mg/l to 20 mg/l
229	CHEMICAL- WATER	Swimming Pool Water	Total Alkalinity as CaCO ₃	APHA, 23rd Edition: 2017	5 mg/l to 1000 mg/l
230	CHEMICAL- WATER	Swimming Pool Water	Total Dissolved Solids	APHA, 23rd Edition: 2017	5.0 mg/l to 10000 mg/l
231	CHEMICAL- WATER	Swimming Pool Water	Turbidity	APHA, 23rd Edition: 2017	1 NTU to 1000 NTU
232	CHEMICAL- WATER	Water from Purifiers	Color	APHA, 23rd Edition 2012/ 2120 -B: 2017	1 CU to 500 CU
233	CHEMICAL- WATER	Water from Purifiers	Electrical Conductivity	APHA, 23rd Edition 2012/2510-B: 2017	1 µS/cm to 200 mS/cm
234	CHEMICAL- WATER	Water from Purifiers	Electrical Conductivity	APHA, 23rd Edition 2012/2510-B: 2017	1 µS/cm to 200 mS/cm
235	CHEMICAL- WATER	Water from Purifiers	pH	APHA, 23rd Edition 2012/4500-H+ B: 2017	1 to 13.5

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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
236	CHEMICAL- WATER	Water from Purifiers	Total Dissolved Solids	APHA, 23rd Edition 2012/ 2540-C: 2017	5.0 mg/l to 10000 mg/l
237	CHEMICAL- WATER	Water from Purifiers	Total Hardness as CaCO ₃	APHA, 23rd Edition 2012/2340-C: 2017	5 mg/l to 2000 mg/l
238	CHEMICAL- WATER	Water from Purifiers	Turbidity	APHA, 23rd Edition 2012 / 2130-B: 2017	1 NTU to 1000 NTU

'NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.'