



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name SIDDHI GREEN EXCELLENCE PVT. LTD., KAMAL ARCADE - THE VERTICAL SUNCLOCK, COMM. PLOT NO. C-3/3, STATION ROAD, GIDC, ANKLESHWAR, BHARUCH, GUJARAT , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5007 Page No. : 1 / 35

Validity 28/03/2019 to 27/03/2021 Last Amended on 29/04/2019

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	Ammonia	SC/LAB/STP/AAQM-06 Issue Date 01/08/2018 Issue no. 01 Rev 00: 2018	5 µg/m ³ to 400 µg/m ³
2	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Arsenic (As)	SC/LAB/STP/AAQM-09 Issue Date 01/08/2018 Issue no. 01 Rev 00: 2018	5 ng/m ³ to 100 ng/m ³
3	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Benzene	IS 5182 (Part 11) RA 2017: 2006	0.5 µg/m ³ to 50 µg/m ³
4	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Benzo(a)pyrene	IS 5182 (Part 12) RA 2014: 2004	0.5 ng/m ³ to 10 ng/m ³
5	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Chlorine	IS 5182 (Part 19) RA 2014: 1982	5 µg/m ³ to 100 µg/m ³
6	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Lead (Pb)	IS 5182 (Part 22) RA 2014 Clause 5: 2006	0.4 µg/m ³ to 100 µg/m ³
7	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Nickel (Ni)	SC/LAB/STP/AAQM-10 Issue Date 01/08/2018 Issue no. 01 Rev 00: 2018	15 ng/m ³ to 100 ng/m ³
8	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6) RA 2017: 2006	6 µg/m ³ to 750 µg/m ³



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9	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Ozone	Method 411 Methods of Air Sampling and Analysis 3rd Ed. Chemical method: 1988	5 µg/m ³ to 1000 µg/m ³
10	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (size less than 10 µm) PM10	IS 5182 (Part 23) RA 2017: 2006	20 µg/m ³ to 1000 µg/m ³
11	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter(PM 2.5)	SC/LAB/STP/AAQM-02 Issue Date 01/08/2018 Issue no. 01 Rev 00: 2018	5 µg/m ³ to 150 µg/m ³
12	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2) RA 2017: 2001	5 µg/m ³ to 500 µg/m ³
13	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Toluene	IS 5182 (Part 11) RA 2017: 2006	0.5 µg/m ³ to 50 µg/m ³
14	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Xylene	IS 5182 (Part 11) RA 2017 : 2006	0.5 µg/m ³ to 50 µg/m ³
15	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Ammonia	IS 11255 (Part 6) RA 2014: 1999	5 mg/Nm ³ to 500 mg/Nm ³
16	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Oxides of Nitrogen (NO _x)	IS 11255 (Part 7) RA 2017: 2005	4 mg/Nm ³ to 400 mg/Nm ³
17	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter (PM)	IS 11255 (Part 1) RA 2014: 1985	5 mg/Nm ³ to 500 mg/Nm ³



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18	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) RA 2014: 1985	8 mg/Nm ³ to 750 mg/Nm ³
19	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Absorbance of monochromatic radiation in Ultraviolet (UV) spectrum by spectrophotometry	SC/ LAB/STP/DP-09 : 2018	190 nm to 380 nm
20	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Absorbance of visible (Vis) spectrum by spectrophotometry	SC/ LAB/STP/DP-09 : 2018	380 nm to 780 nm
21	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Clarity & Color	SC/ LAB/STP/DP-08 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	Qualitative
22	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Description & Solubility	SC/ LAB/STP/DP-01 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	Qualitative
23	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Identification by Infrared Spectrophotometry	SC/ LAB/STP/DP-05 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	4000 cm ⁻¹ to 625 cm ⁻¹
24	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Loss on Drying	SC/ LAB/STP/DP-02 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0.05 % to 5 %
25	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Optical Rotation/Specific Rotation	SC/ LAB/STP/DP-10 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	-130 to 130



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26	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Refractive Index	SC/ LAB/STP/DP-06 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	1.3000 to 1.7000
27	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Specific Gravity	SC/ LAB/STP-11 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0.5 to 2
28	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Sulphate	SC/ LAB/STP/DP-07 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	Qualitative
29	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Sulphated Ash	SC/ LAB/STP/DP-03 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0.01 % to 5 %
30	CHEMICAL- DRUGS & PHARMACEUTICALS	Pharmaceutical raw materials and finished products	Water by K.F.	SC/ LAB/STP/DP-04 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0.1 % to 10 %
31	CHEMICAL- PETROLEUM AND PRODUCTS	Petroleum products	Flash Point (Pensky Martens closed cup)	IS 1448 (Part 21): 2012	30 °C to 200 °C
32	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Nitrogen (N) in soil	SC/LAB/STP/SS-11 Issue date 01/08/2018 Issue no. 01 Rev 00: 2018	0.05 % to 10 %
33	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Phosphorous as P	SC/LAB/STP/SS-10 Issue no 01 Date of issue 01/08/2018 Rev 00: 2018	1 mg/kg to 50 mg/kg



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34	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Potassium (K)	SC/LAB/STP/SS-09 Issue no 01 Date of Issue 01/08/2018 Rev 00: 2018	2 mg/kg to 2000 mg/kg
35	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Available Sodium (Na)	SC/LAB/STP/SS-08 Issue no 01 Date of Issue 01/08/2018 Rev 00: 2018	2 mg/kg to 6000 mg/kg
36	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Cation Exchange Capacity	IS 2720 (Part 24) Method 5 RA 2015: 1976	1.0 meq/100gm to 600 meq/100gm
37	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Electrical Conductivity	IS 14767 RA 2016: 2000	1 μ S/cm to 10,000 μ S/cm
38	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Exchangeable Calcium (Ca)	SC/LAB/STP/SS-06 Date of Issue 01/08/2018 Issue No 01 Rev 00: 2018	2 mg/kg to 6000 mg/kg
39	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Exchangeable Magnesium (Mg)	SC/LAB/STP/SS-07 Issue no 01 Date of issue 01/08/2018 Rev 00: 2018	2 mg/kg to 4000 mg/kg
40	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Moisture Content	IS 2720 (Part 2) RA 2015: 1973	1 % to 50 %
41	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Organic Carbon	IS 2720 (Part 22) RA 2015 by calculation: 1972	0.1 % to 100 %
42	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Organic Matter	IS 2720 (Part 22) RA 2015 by calculation: 1972	0.1 % to 100 %



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43	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	pH Value	IS 2720 (Part 26) RA 2016: 1987	1 pH to 14 pH
44	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Sodium Absorption Ratio (SAR)	SC/LAB/STP/SS-14 Issue Date 01/08/2018 Issue no. 01 Rev 00: 2018	0.1 % to 26 %
45	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Specific Gravity	IS 2720 (Part 3/Sec 1) RA 2016: 1980	1 to 4
46	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Water Holding Capacity (WHC)	SC/LAB/STP/SS-15 Issue Date 01/08/2018 Issue no. 01 Rev 00: 2018	10 % to 90 %
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	% Sodium	APHA 23rd Ed. Calculation Method: 2017	0.1 % to 100 %
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	% Sodium	APHA 23rd Ed. Calculation Method: 2017	0.1 % to 100 %
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Aluminium	APHA 23rd Ed. 3111D (Direct Nitrous Oxide Acetylene Flame Method): 2017	0.5 mg/L to 50 mg/L
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Aluminium	APHA 23rd Ed. 3111D (Direct Nitrous Oxide Acetylene Flame Method): 2017	0.5 mg/L to 50 mg/L
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonical Nitrogen	APHA 23rd Ed. 4500 NH3 C Titrimetric Method: 2017	10 mg/L to 5000 mg/L



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52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonical Nitrogen	APHA 23rd Ed. 4500 NH3 C Titrimetric Method: 2017	10 mg/L to 5000 mg/L
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Arsenic	APHA 23rd Ed. 3114 B (Hydride Mode): 2017	0.1 mg/L to 10 mg/L
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Arsenic	APHA 23rd Ed. 3114 B (Hydride Mode): 2017	0.1 mg/L to 10 mg/L
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Barium	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	1 mg/L to 20 mg/L
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Barium	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	1 mg/L to 20 mg/L
57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Biochemical Oxygen Demand	IS 3025 (Part 44) RA 2014 (3 days BOD test): 1993	2 mg/L to 10,000 mg/L
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cadmium	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cadmium	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) RA 2017: 2006	4 mg/L to 1,00,000 mg/L



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61	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride	APHA 23rd Ed. 4500B Argentometric Titration: 2017	1 mg/L to 1,00,000 mg/L
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chromium	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chromium	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Colour	APHA 23rd Ed. 2120B Visual Comparison Method: 2017	5 Hazen to 500 Hazen
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Conductivity	APHA 23rd Ed. 2510B: 2017	15 µS/cm to 1,00,000 µS/cm
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Copper	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Copper	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	IS 3025 (Part 38) Clause 4.2 RA 2014: 1989	0.2 mg/L to 10 mg/L
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	IS 3025 (Part 38) Clause 4.2 RA 2014: 1989	0.2 mg/L to 10 mg/L
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride	APHA 23rd Ed. 4500 F D SPADNS Method: 2017	0.5 mg/L to 10 mg/L



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71	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hexavalent Chromium	APHA 23rd Ed. 3500 Cr B Colorimetric Method: 2017	0.1 mg/L to 25 mg/L
72	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hexavalent Chromium	APHA 23rd Ed. 3500 Cr B Colorimetric Method: 2017	0.1 mg/L to 50 mg/L
73	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Iron	IS 3025 (Part 53) RA 2014 1,10 Phenanthroline Method: 2003	1 mg/L to 50 mg/L
74	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Iron	IS 3025 (Part 53) RA 2014 1,10 Phenanthroline Method: 2003	1 mg/L to 50 mg/L
75	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Lead	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
76	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Lead	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
77	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Manganese	APHA 23rd Ed. 3111B: 2017	0.5 mg/L to 20 mg/L
78	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Manganese	APHA 23rd Ed. 3111B: 2017	0.5 mg/L to 20 mg/L
79	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Mercury	APHA 23rd Ed. 3112 (Flameless Cold Vapor): 2017	0.002 mg/L to 5 mg/L



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80	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Mercury	APHA 23rd Ed. 3112 (Flameless Cold Vapor): 2017	0.002 mg/L to 5 mg/L
81	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Molybdenum	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	1 mg/L to 20 mg/L
82	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Molybdenum	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	1 mg/L to 20 mg/L
83	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nickel	APHA 23rd Ed. 3111B: 2017	0.2 mg/L to 10 mg/L
84	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nickel	APHA 23rd Ed. 3111B: 2017	0.2 mg/L to 10 mg/L
85	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate Nitrogen	IS 3025 (Part 34) Clause 3.3 RA 2014 Chromo tropic Acid Method: 1988	0.1 mg/L to 100 mg/L
86	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Odour	IS 3025 (Part 5) First Rev. RA 2017: 1983	Qualitative
87	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil & Grease	IS 3025 (Part 39) Clause 5 RA 2014 Partition Gravimetric Method: 1991	0.5 mg/L to 500 mg/L
88	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	IS 3025 (Part 11) RA 2017 Electrometric Method: 1983	1 pH to 14 pH



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89	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenolic Compounds	APHA 23rd Ed. 5530D Direct Photometric Method: 2017	0.1 mg/L to 250 mg/L
90	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphate	APHA 23rd Ed. 4500 P C Vanadomolybdophosphoric Acid: 2017	1 mg/L to 50 mg/L
91	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium	APHA 23rd Ed. 3500 K B Flame emission photometric method: 2017	5 mg/L to 500 mg/L
92	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium	APHA 23rd Ed. 3500 K B Flame emission photometric method: 2017	5 mg/L to 500 mg/L
93	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Reactive Silica	APHA 23rd Ed. 4500 SiO ₂ -C: 2017	0.1 mg/L to 100 mg/L
94	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium	APHA 23rd Ed. 3500 Na B Flame Emission Photometric Method: 2017	5 mg/L to 1000 mg/L
95	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium Absorption Ratio (SAR)	APHA 23rd Ed. Calculation Method: 2017	0.1 to 100
96	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium Absorption Ratio (SAR)	APHA 23rd Ed. Calculation Method: 2017	0.1 to 100
97	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate	APHA 23rd Ed. 4500 SO ₄ -2 E (Turbidimetric Method): 2017	10 mg/L to 50,000 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
98	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphide	APHA 23rd Ed. 4500 S2 F Iodometric Method: 2017	0.5 mg/L to 50 mg/L
99	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphide	APHA 23rd Ed. 4500 S2 F Iodometric Method: 2017	0.5 mg/L to 50 mg/L
100	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	APHA 23rd Ed. 2550B By Mercury filled Thermometer: 2017	0 °C to 100 °C
101	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	APHA 23rd Ed. 2540C Gravimetric Method: 2017	10 mg/L to 1,00,000 mg/L
102	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Kjeldahl Nitrogen	APHA 23rd Ed. 4500 N org B Macro Kjeldahl Method: 2017	2 mg/L to 10,000 mg/L
103	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Solids	APHA 23rd Ed. 2540B Gravimetric Method: 2017	10 mg/L to 50,000 mg/L
104	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total suspended solids	APHA 23rd Ed. 2540D Gravimetric Method: 2017	10 mg/L to 10,000 mg/L
105	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Turbidity	IS 3025 (Part 10) RA 2017 Nephelometric Method: 1984	0.1 NTU to 500 NTU
106	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Zinc	APHA 23rd Ed. 3111B: 2017	0.2 mg/L to 20 mg/L
107	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Zinc	APHA 23rd Ed. 3111B: 2017	0.2 mg/L to 20 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
108	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Slurry/Sludge/Solid/Semi-Solid)	Ash Content at 900°C	Standard Methods APHA 23rd Ed 2540 G Pg 2-68: 2017	0.1 % to 99 %
109	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Slurry/Sludge/Solid/Semi-Solid)	Calorific Value	IS 1350 (Part 2) RA 2015: 1977	200.0 Kcal/kg to 10,000.0 Kcal/kg
110	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Slurry/Sludge/Solid/Semi-Solid)	Flash Point	IS 1448 (Part 21): 2012	30 °C to 200 °C
111	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Slurry/Sludge/Solid/Semi-Solid)	Loss on Ignition at 550°C	Standard Methods APHA 23rd Ed 2540 G Pg 2-68: 2017	0.1 % to 99 %
112	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Slurry/Sludge/Solid/Semi-Solid)	Moisture Content at 105°C for Solid Waste	SC/LAB/STP/HW-19 Date of issue 01/08/2018 Issue no 01 Rev 00: 2018	0.1 % to 99 %
113	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Slurry/Sludge/Solid/Semi-Solid)	Moisture Content by Karl Fisher for Liquid Waste	EPA 9000 (Feb 2007 Rev 00): 2007	0.1 % to 99 %
114	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Slurry/Sludge/Solid/Semi-Solid)	Oil & Grease	EPA 9071 B (April 1998 Rev 2): 1998	5 mg/kg to 1000 mg/kg
115	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Slurry/Sludge/Solid/Semi-Solid)	Paint Filter Liq. Test (PFLT)	EPA 9095 B (Nov 2004 Rev 02): 2004	Qualitative
116	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Slurry/Sludge/Solid/Semi-Solid)	pH	EPA 9041A (July 1992 Rev 01): 1992	1 pH to 14 pH
117	CHEMICAL- RESIDUES IN WATER	Trace metal elements	Arsenic	APHA 23rd Ed. 3114 (Hydride Mode): 2017	0.009 mg/L to 1 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
118	CHEMICAL- RESIDUES IN WATER	Trace metal elements	Mercury	APHA 23rd Ed. 3112 (Flameless Cold Vapour): 2017	0.0009 mg/L to 5 mg/L
119	CHEMICAL- SOLID FUELS	Coal (Proximate Analysis)	Ash	IS 1350 (Part 1) RA 2013: 1984	1.0 % to 20 %
120	CHEMICAL- SOLID FUELS	Coal (Proximate Analysis)	Fixed Carbon	IS 1350 (Part 1) RA 2013: 1984	2.0 % to 50 %
121	CHEMICAL- SOLID FUELS	Coal (Proximate Analysis)	Gross Calorific Value	IS 1350 (Part 2): 2017	2000 kcal/kg to 8000 kcal/kg
122	CHEMICAL- SOLID FUELS	Coal (Proximate Analysis)	Total Moisture	IS 1350 (Part 1) RA 2013 Proximate Analysis: 1984	2.0 % to 50 %
123	CHEMICAL- SOLID FUELS	Coal (Proximate Analysis)	Volatile Matter	IS 1350 (Part 1) RA 2013: 1984	5.0 % to 50 %
124	CHEMICAL- SOLID FUELS	Coke	Ash	IS 1350 (Part 1) RA 2013: 1984	0.5 % to 20 %
125	CHEMICAL- SOLID FUELS	Coke	Fixed carbon	IS 1350 (Part 1) RA 2013: 1984	5.0 % to 70 %
126	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value	IS 1350 (Part 2): 2017	2000 kcal/kg to 8000 kcal/kg
127	CHEMICAL- SOLID FUELS	Coke	Moisture (Air dry basis)	IS 1350 (Part 1) RA 2013 Proximate Analysis: 1984	0.5 % to 50 %
128	CHEMICAL- SOLID FUELS	Coke	Volatile Matter	IS 1350 (Part 1) RA 2013: 1984	2.0 % to 50 %
129	CHEMICAL- WATER	Ground Water	Sulphate	APHA 23rd Ed. 4500 SO4 -2 E (Turbidimetric Method): 2017	10 mg/L to 1000 mg/L



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130	CHEMICAL- WATER	Packaged Drinking Water	Biochemical Oxygen Demand	3 days BOD test IS 3025 (Part 44) RA 2014: 1993	2 mg/L to 10,000 mg/L
131	CHEMICAL- WATER	Surface Water	Chromium	APHA 23rd Ed. 3111B : 2017	0.1 mg/L to 10 mg/L
132	CHEMICAL- WATER	Drinking Water	Aluminium	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	0.02 mg/L to 1 mg/L
133	CHEMICAL- WATER	Drinking Water	Ammonical Nitrogen	APHA 23rd Ed 4500 NH3 C Titrimetric Method: 2017	0.5 mg/L to 500 mg/L
134	CHEMICAL- WATER	Drinking Water	Arsenic	APHA 23rd Ed. 3114B (Hydride Mode): 2017	0.1 mg/L to 10 mg/L
135	CHEMICAL- WATER	Drinking Water	Barium	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	0.5 mg/L to 20 mg/L
136	CHEMICAL- WATER	Drinking Water	Biochemical Oxygen Demand	3days BOD rest IS 3025 (Part 44) RA 2014: 1993	2 mg/L to 10,000 mg/L
137	CHEMICAL- WATER	Drinking Water	Boron	APHA 23rd Ed. 4500B Curcumin Method: 2017	0.2 mg/L to 2 mg/L
138	CHEMICAL- WATER	Drinking Water	Cadmium	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
139	CHEMICAL- WATER	Drinking Water	Calcium	APHA 23rd Ed. 3500 Ca B EDTA Titrimetric Method: 2017	10 mg/L to 500 mg/L



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140	CHEMICAL- WATER	Drinking Water	Chloride	APHA 23rd Ed. 4500 Cl B (Argentometric Titration): 2017	10 mg/L to 5000 mg/L
141	CHEMICAL- WATER	Drinking Water	Chromium	APHA 23rd Ed 3111B: 2017	0.1 mg/L to 10 mg/L
142	CHEMICAL- WATER	Drinking Water	Colour	APHA 23rd Ed. 2120B Visual Comparison Method: 2017	5 Hazen to 100 Hazen
143	CHEMICAL- WATER	Drinking Water	Copper	APHA 23rd Ed. 3111B: 2017	0.05 mg/L to 10 mg/L
144	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	IS 3025 (Part 38) Clause 4.2 RA 2014: 1989	0.2 mg/L to 10 mg/L
145	CHEMICAL- WATER	Drinking Water	Fluoride	APHA 23rd Ed. 4500 F D SPADNS Method: 2017	0.5 mg/L to 10 mg/L
146	CHEMICAL- WATER	Drinking Water	Iron	IS 3025 (part 53) RA 2014 1,10-Phenanthroline Method: 2003	0.1 mg/L to 5 mg/L
147	CHEMICAL- WATER	Drinking Water	Lead	APHA 23rd Ed 3111B: 2017	0.1 mg/L to 10 mg/L
148	CHEMICAL- WATER	Drinking Water	Magnesium	APHA 23rd Ed. 3500 Mg B Calculation Method: 2017	10 mg/L to 500 mg/L
149	CHEMICAL- WATER	Drinking Water	Manganese	APHA 23rd Ed. 3111B: 2017	0.05 mg/L to 10 mg/L
150	CHEMICAL- WATER	Drinking Water	Nickel	APHA 23rd 3111B: 2017	0.2 mg/L to 10 mg/L



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151	CHEMICAL- WATER	Drinking Water	Nitrate Nitrogen	IS 3025 (Part 34) Clause 3.3 RA 2014 Chromo tropic acid Method: 1988	0.1 mg/L to 100 mg/L
152	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5) (1st Rev)(RA 2017): 1983	Qualitative
153	CHEMICAL- WATER	Drinking Water	Oil & Grease	IS 3025 (Part 39) Clause 5 RA 2014 Partition Gravimetric Method: 1991	0.5 mg/L to 100 mg/L
154	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11) RA 2017 Electrometric Method: 1983	1 pH to 14 pH
155	CHEMICAL- WATER	Drinking Water	Phenolic Compounds	APHA 23rd Ed. 5530D Direct Photometric Method: 2017	0.0009 mg/L to 5 mg/L
156	CHEMICAL- WATER	Drinking Water	Sulphate	APHA 23rd Ed. 4500 SO4 -2 E (Turbidimetric Method): 2017	10 mg/L to 1000 mg/L
157	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (Part 7) (1st Rev) RA 2017: 1984	Qualitative
158	CHEMICAL- WATER	Drinking Water	Total Alkalinity	IS 3025 (Part 23) Clause 8.1 RA 2014 Indicator Method: 1986	10 mg/L to 2000 mg/L
159	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA 23rd Ed. 2540C Gravimetric Method: 2017	10 mg/L to 4000 mg/L
160	CHEMICAL- WATER	Drinking Water	Total Hardness	APHA 23rd Ed. 2340C EDTA Titrimetric Method: 2017	10 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
161	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10) RA 2017 Nephelometric Method: 1984	0.1 NTU to 100 NTU
162	CHEMICAL- WATER	Drinking Water	Zinc	APHA 23rd Ed. 3111B : 2017	0.2 mg/L to 20 mg/L
163	CHEMICAL- WATER	Ground Water	% Sodium	APHA 23rd Ed. Calculation Method: 2017	0.1 % to 100 %
164	CHEMICAL- WATER	Ground Water	Acidity	IS 3025 (Part 22) Clause 8.1 RA 2014 Indicator Method: 1986	10 mg/L to 500 mg/L
165	CHEMICAL- WATER	Ground Water	Aluminium	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	0.02 mg/L to 10 mg/L
166	CHEMICAL- WATER	Ground Water	Arsenic	APHA 23rd Ed. 3114 (Hydride Mode): 2017	0.1 mg/L to 10 mg/L
167	CHEMICAL- WATER	Ground Water	Barium	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	1 mg/L to 20 mg/L
168	CHEMICAL- WATER	Ground Water	Bicarbonates	IS 3025 (Part 51) Clause 9 RA 2017 Calculation Method: 2001	10 mg/L to 3000 mg/L
169	CHEMICAL- WATER	Ground Water	Biochemical Oxygen Demand (BOD 3d, 27°C)	IS 3025 (Part 44) RA 2014 3 days BOD test: 1993	2 mg/L to 10,000 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
170	CHEMICAL- WATER	Ground Water	Boron	APHA 23rd Ed. 4500 B Curcumin Method: 2017	0.2 mg/L to 2 mg/L
171	CHEMICAL- WATER	Ground Water	Cadmium	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
172	CHEMICAL- WATER	Ground Water	Calcium	APHA 23rd Ed. 3500 Ca B EDTA Titrimetric Method: 2017	10 mg/L to 500 mg/L
173	CHEMICAL- WATER	Ground Water	Carbonates	IS 3025 (Part 51) Clause 9 RA 2017 Calculation Method: 2001	10 mg/L to 3000 mg/L
174	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) RA 2017: 2006	4 mg/L to 10,000 mg/L
175	CHEMICAL- WATER	Ground Water	Chloride	APHA 23rd Ed. 4500B (Argentometric Titration): 2017	1 mg/L to 50,000 mg/L
176	CHEMICAL- WATER	Ground Water	Chromium	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
177	CHEMICAL- WATER	Ground Water	Colour	APHA 23rd Ed. 2120B Visual Comparison Method: 2017	5 Hazen to 100 Hazen
178	CHEMICAL- WATER	Ground Water	Conductivity	APHA 23rd Ed. 2510B: 2017	15 µS/cm to 10,000 µS/cm
179	CHEMICAL- WATER	Ground Water	Copper	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
180	CHEMICAL- WATER	Ground Water	Fluoride	APHA 23rd Ed. 4500 F D SPADNS Method: 2017	0.5 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
181	CHEMICAL- WATER	Ground Water	Hexavalent Chromium	APHA 23rd Ed. 3500 Cr B Colorimetric Method: 2017	0.1 mg/L to 50 mg/L
182	CHEMICAL- WATER	Ground Water	Iron	IS 3025 (Part 53) RA 2014 1,10-Phenanthroline Method: 2003	0.1 mg/L to 5 mg/L
183	CHEMICAL- WATER	Ground Water	Lead	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
184	CHEMICAL- WATER	Ground Water	Magnesium	APHA 23rd Ed. 3500 Mg B Calculation Method: 2017	10 mg/L to 500 mg/L
185	CHEMICAL- WATER	Ground Water	Manganese	APHA 23rd Ed. 3111B: 2017	0.05 mg/L to 10 mg/L
186	CHEMICAL- WATER	Ground Water	Mercury	APHA 23rd Ed. 3112 (Flameless Cold Vapour): 2017	0.002 mg/L to 5 mg/L
187	CHEMICAL- WATER	Ground Water	Molybdenum	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	1 mg/L to 20 mg/L
188	CHEMICAL- WATER	Ground Water	Nickel	APHA 23rd Ed. 3111B: 2017	0.2 mg/L to 10 mg/L
189	CHEMICAL- WATER	Ground Water	Nitrate Nitrogen	IS 3025 (Part 34) Clause 3.3 RA 2014 (Chromo tropic acid Method): 1988	0.1 mg/L to 100 mg/L
190	CHEMICAL- WATER	Ground Water	Nitrite Nitrogen	IS 3025 (Part 34) Clause 4 RA 2014: 1988	0.01 mg/L to 10 mg/L



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191	CHEMICAL- WATER	Ground Water	Odour	IS 3025 (Part 5) (1st rev) RA 2017: 1983	Qualitative
192	CHEMICAL- WATER	Ground Water	Oil & Grease	IS 3025 (Part 39) Clause 5 RA 2014 Partition Gravimetric Method: 1991	0.5 mg/L to 100 mg/L
193	CHEMICAL- WATER	Ground Water	pH	IS 3025 (Part 11) RA 2017 Electrometric Method: 1983	1 pH to 14 pH
194	CHEMICAL- WATER	Ground Water	Phenolic Compounds	APHA 23rd Ed. 5530D Direct Photometric Method: 2017	0.001 mg/L to 5 mg/L
195	CHEMICAL- WATER	Ground Water	Phosphate	APHA 23rd Ed. 4500 P C Vanadomolybdophosphoric Acid: 2017	1 mg/L to 50 mg/L
196	CHEMICAL- WATER	Ground Water	Potassium	APHA 23rd Ed. 3500 K B and APHA 23rd Ed 3111B: 2017	5 mg/L to 500 mg/L
197	CHEMICAL- WATER	Ground Water	Reactive Silica	APHA 23rd Ed. 4500 SiO ₂ C: 2017	0.1 mg/L to 100 mg/L
198	CHEMICAL- WATER	Ground Water	Sodium	APHA 23rd Ed. 3500 Na B and APHA 23rd Ed. 3111B: 2017	5 mg/L to 500 mg/L
199	CHEMICAL- WATER	Ground Water	Sodium Absorption Ratio (SAR)	APHA 23rd Ed. Calculation Method: 2017	0.1 to 100
200	CHEMICAL- WATER	Ground Water	Temperature	APHA 23rd Ed. 2550B By Mercury Filled Thermometer: 2017	0 °C to 100 °C



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201	CHEMICAL- WATER	Ground Water	Total Alkalinity	IS 3025 (Part 23) Clause 8.1 RA 2014 Indicator Method: 1986	10 mg/L to 2000 mg/L
202	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA 23rd Ed. 2540C Gravimetric Method: 2017	10 mg/L to 50,000 mg/L
203	CHEMICAL- WATER	Ground Water	Total Hardness	APHA 23rd Ed. 2340C EDTA Titrimetric Method: 2017	10 mg/L to 1000 mg/L
204	CHEMICAL- WATER	Ground Water	Total Kjeldahl Nitrogen	APHA 23rd Ed. 4500 N org B Macro Kjeldahl Method: 2017	2 mg/L to 1000 mg/L
205	CHEMICAL- WATER	Ground Water	Total Solids	APHA 23rd Ed. 2540B Gravimetric Method: 2017	10 mg/L to 50,000 mg/L
206	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA 23rd Ed. 2540D Gravimetric Method: 2017	10 mg/L to 1000 mg/L
207	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10) RA 2017 Nephelometric Method: 1984	0.1 NTU to 100 NTU
208	CHEMICAL- WATER	Ground Water	Zinc	APHA 23rd Ed. 3111B: 2017	0.2 mg/L to 20 mg/L
209	CHEMICAL- WATER	Packaged Drinking Water	Aluminium	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	0.02 mg/L to 1 mg/L
210	CHEMICAL- WATER	Packaged Drinking Water	Arsenic	APHA 23rd Ed. 3114B (Hydride Mode): 2017	0.1 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
211	CHEMICAL- WATER	Packaged Drinking Water	Barium	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	0.5 mg/L to 20 mg/L
212	CHEMICAL- WATER	Packaged Drinking Water	Cadmium	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
213	CHEMICAL- WATER	Packaged Drinking Water	Calcium	APHA 23rd Ed. 3500 Ca B EDTA Titrimetric Method: 2017	10 mg/L to 500 mg/L
214	CHEMICAL- WATER	Packaged Drinking Water	Chloride	APHA 23rd Ed. 4500 Cl B (Argentometric Titration): 2017	10 mg/L to 500 mg/L
215	CHEMICAL- WATER	Packaged Drinking Water	Chromium	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
216	CHEMICAL- WATER	Packaged Drinking Water	Colour	APHA 23rd Ed. 2120B Visual Comparison Method: 2017	5 Hazen to 100 Hazen
217	CHEMICAL- WATER	Packaged Drinking Water	Copper	APHA 23rd Ed. 3111B: 2017	0.05 mg/L to 10 mg/L
218	CHEMICAL- WATER	Packaged Drinking Water	Fluoride	APHA 23rd Ed. 4500 F D SPADNS Method: 2017	0.5 mg/L to 10 mg/L
219	CHEMICAL- WATER	Packaged Drinking Water	Iron	IS 3025 (Part 53) RA 2014 1,10-Phenanthroline Method: 2003	0.1 mg/L to 5 mg/L
220	CHEMICAL- WATER	Packaged Drinking Water	Lead	APHA 23rd Ed. 3111B: 2017	0.1 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
221	CHEMICAL- WATER	Packaged Drinking Water	Magnesium	APHA 23rd Ed. 3500 Mg B Calculation Method: 2017	10 mg/L to 500 mg/L
222	CHEMICAL- WATER	Packaged Drinking Water	Manganese	APHA 23rd Ed. 3111B: 2017	0.05 mg/L to 10 mg/L
223	CHEMICAL- WATER	Packaged Drinking Water	Nickel	APHA 23rd Ed. 3111B: 2017	0.2 mg/L to 10 mg/L
224	CHEMICAL- WATER	Packaged Drinking Water	Nitrate Nitrogen	IS 3025 (Part 34) Clause 3.3 RA 2014 Chromo tropic acid Method: 1988	0.1 mg/L to 100 mg/L
225	CHEMICAL- WATER	Packaged Drinking Water	Nitrite Nitrogen	IS 3025 (Part 34) Clause 4 RA 2014: 1988	0.01 mg/L to 10 mg/L
226	CHEMICAL- WATER	Packaged Drinking water	Odour	IS 3025 (Part 5) (1st rev) (RA 2017): 1983	Qualitative
227	CHEMICAL- WATER	Packaged Drinking Water	pH	IS 3025 (Part 11) RA 2017 ELeCtrometric Method: 1983	1 pH to 14 pH
228	CHEMICAL- WATER	Packaged Drinking Water	Phenolic Compounds	APHA 23rd Ed. 5530D Direct Photometric Method: 2017	0.0009 mg/L to 5 mg/L
229	CHEMICAL- WATER	Packaged Drinking Water	Sulphate	APHA 23rd Ed. 4500 SO4 -2 E (Turbidimetric Method): 2017	10 mg/L to 1000 mg/L
230	CHEMICAL- WATER	Packaged Drinking water	Taste	IS 3025 (Part 7) (1st Rev) RA 2017: 1984	Qualitative



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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
231	CHEMICAL- WATER	Packaged Drinking Water	Total Alkalinity	IS 3025 (Part 23) Clause 8.1 Titration RA 2014 Indicator Method: 1986	10 mg/L to 2000 mg/L
232	CHEMICAL- WATER	Packaged Drinking Water	Total Dissolved Solids	APHA 23rd Ed. 2540C Gravimetric Method: 2017	10 mg/L to 4000 mg/L
233	CHEMICAL- WATER	Packaged Drinking Water	Turbidity	IS 3025 (Part 10) RA 2017 Nephelometric Method: 1984	0.1 NTU to 100 NTU
234	CHEMICAL- WATER	Packaged Drinking Water	Zinc	APHA 23rd Ed. 3111B: 2017	0.2 mg/L to 20 mg/L
235	CHEMICAL- WATER	Surface Water	% Sodium	APHA 23rd Ed. Calculation Method: 2017	0.1 % to 100 %
236	CHEMICAL- WATER	Surface Water	Acidity	IS 3025 (Part 22) Clause 8.1 RA 2014 Indicator Method: 1986	10 mg/L to 500 mg/L
237	CHEMICAL- WATER	Surface Water	Aluminium	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	0.02 mg/L to 10 mg/L
238	CHEMICAL- WATER	Surface Water	Arsenic	APHA 23rd Ed. 3114 (Hydride Mode): 2017	0.1 mg/L to 10 mg/L
239	CHEMICAL- WATER	Surface Water	Barium	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	1 mg/L to 20 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
240	CHEMICAL- WATER	Surface Water	Bicarbonates	IS 3025 (Part 51) Clause 9 RA 2017 Calculation Method: 2001	10 mg/L to 3000 mg/L
241	CHEMICAL- WATER	Surface Water	Biochemical Oxygen Demand (BOD 3d, 27°C)	IS 3025 (Part 44) RA 2014 3 days BOD test: 1993	2 mg/L to 10,000 mg/L
242	CHEMICAL- WATER	Surface Water	Boron	APHA 23rd Ed. 4500B Curcumin Method: 2017	0.2 mg/L to 2 mg/L
243	CHEMICAL- WATER	Surface Water	Cadmium	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
244	CHEMICAL- WATER	Surface Water	Calcium	APHA 23rd Ed. 3500 Ca B EDTA Titrimetric Method: 2017	10 mg/L to 500 mg/L
245	CHEMICAL- WATER	Surface Water	Carbonates	IS 3025 (Part 51) Clause 9 RA 2017 Calculation Method: 2001	10 mg/L to 3000 mg/L
246	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) RA 2017: 2006	4 mg/L to 10,000 mg/L
247	CHEMICAL- WATER	Surface Water	Chloride	APHA 23rd Ed. 4500 B (Argentometric Titration): 2017	1 mg/L to 50,000 mg/L
248	CHEMICAL- WATER	Surface Water	Colour	APHA 23rd Ed. 2120B Visual Comparison Method: 2017	5 Hazen to 100 Hazen
249	CHEMICAL- WATER	Surface Water	Conductivity	APHA 23rd Ed. 2510B: 2017	15 µS/cm to 10,000 µS/cm



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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
250	CHEMICAL- WATER	Surface Water	Copper	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
251	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	IS 3025 (Part 38) Clause 4.2 RA 2014: 1989	0.2 mg/L to 10 mg/L
252	CHEMICAL- WATER	Surface Water	Fluoride	APHA 23rd Ed. 4500 F D SPADNS Method: 2017	0.5 mg/L to 10 mg/L
253	CHEMICAL- WATER	Surface Water	Hexavalent Chromium	APHA 23rd Ed. 3500 Cr B Colorimetric Method: 2017	0.1 mg/L to 50 mg/L
254	CHEMICAL- WATER	Surface Water	Iron	IS 3025 (Part 53) RA 2014 1,10-Phenanthroline Method: 2003	0.1 mg/L to 5 mg/L
255	CHEMICAL- WATER	Surface Water	Lead	APHA 23rd Ed. 3111B: 2017	0.1 mg/L to 10 mg/L
256	CHEMICAL- WATER	Surface Water	Magnesium	APHA 23rd Ed. 3500 Mg B Calculation Method: 2017	10 mg/L to 500 mg/L
257	CHEMICAL- WATER	Surface Water	Manganese	APHA 23rd Ed. 3111B: 2017	0.05 mg/L to 10 mg/L
258	CHEMICAL- WATER	Surface Water	Mercury	APHA 23rd Ed. 3112 (Flameless Cold Vapour): 2017	0.02 mg/L to 5 mg/L
259	CHEMICAL- WATER	Surface Water	Molybdenum	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	1 mg/L to 20 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
260	CHEMICAL- WATER	Surface Water	Nickel	APHA 23rd Ed. 3111B: 2017	0.2 mg/L to 10 mg/L
261	CHEMICAL- WATER	Surface Water	Nitrate Nitrogen	IS 3025 (Part 34) Clause 3.3 RA 2014 (Chromo tropic acid Method): 1988	0.1 mg/L to 100 mg/L
262	CHEMICAL- WATER	Surface Water	Nitrite nitrogen	IS 3025 (Part 34) Clause 4 RA 2014: 1988	0.01 mg/L to 10 mg/L
263	CHEMICAL- WATER	Surface Water	Odour	IS 3025 (Part 5) (1st Rev) RA 2017: 1983	Qualitative
264	CHEMICAL- WATER	Surface Water	Oil & Grease	IS 3025 (Part 39) Clause 5 RA 2014 Partition Gravimetric Method: 1991	0.5 mg/L to 100 mg/L
265	CHEMICAL- WATER	Surface Water	pH	IS 3025 (Part 11) RA 2017 Electrometric Method: 1983	1 pH to 14 pH
266	CHEMICAL- WATER	Surface Water	Phenolic Compounds	APHA 23rd Ed. 5530D Direct Photometric Method: 2017	0.001 mg/L to 5 mg/L
267	CHEMICAL- WATER	Surface Water	Phosphate	APHA 23rd Ed. 4500 P C Vanadomolybdophosphoric Acid: 2017	1 mg/L to 50 mg/L
268	CHEMICAL- WATER	Surface Water	Potassium	APHA 23rd Ed. 3500 K B and APHA 23rd Ed 3111B: 2017	5 mg/L to 500 mg/L
269	CHEMICAL- WATER	Surface Water	Reactive Silica	APHA 23rd Ed. 4500 SiO2 C: 2017	0.1 mg/L to 100 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
270	CHEMICAL- WATER	Surface Water	Sodium	APHA 23rd Ed. 3500 Na B and APHA 23rd Ed. 3111B: 2017	5 mg/L to 500 mg/L
271	CHEMICAL- WATER	Surface Water	Sodium Absorption Ratio (SAR)	APHA 23rd Ed. Calculation method: 2017	0.1 to 100
272	CHEMICAL- WATER	Surface Water	Sulphate	APHA 23rd Ed. 4500 SO4-2 E (Turbidimetric Method): 2017	10 mg/L to 1000 mg/L
273	CHEMICAL- WATER	Surface Water	Temperature	APHA 23rd Ed. 2550B By Mercury Filled Thermometer: 2017	0 °C to 100 °C
274	CHEMICAL- WATER	Surface Water	Total Alkalinity	IS 3025 (Part 23) Clause 8.1 RA 2014 Indicator Method: 1986	10 mg/L to 2000 mg/L
275	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA 23rd Ed. 2540C Gravimetric Method: 2017	10 mg/L to 50,000 mg/L
276	CHEMICAL- WATER	Surface Water	Total Hardness	APHA 23rd Ed. 2340 C EDTA Titrimetric Method: 2017	10 mg/L to 1000 mg/L
277	CHEMICAL- WATER	Surface Water	Total Kjeldahl Nitrogen	APHA 23rd Ed. 4500 N org B Macro Kjeldahl Method: 2017	2 mg/L to 1000 mg/L
278	CHEMICAL- WATER	Surface Water	Total Solids	APHA 23rd Ed. 2540B Gravimetric Method: 2017	10 mg/L to 50,000 mg/L
279	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 23rd Ed. 2540D Gravimetric Method: 2017	10 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
280	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part 10) RA 2017 Nephelometric Method: 1984	0.1 NTU to 100 NTU
281	CHEMICAL- WATER	Surface Water	Zinc	APHA 23rd Ed. 3111B: 2017	0.2 mg/L to 20 mg/L
282	CHEMICAL- WATER	Swimming Pool Water	Aluminium	APHA 23rd Ed. 3111D (Direct Nitrous oxide acetylene flame method): 2017	0.1 mg/L to 1 mg/L
283	CHEMICAL- WATER	Swimming Pool Water	Chloride	APHA 23rd Ed. 4500B (Argentometric Titration): 2017	10 mg/L to 500 mg/L
284	CHEMICAL- WATER	Swimming Pool Water	Colour	APHA 23rd Ed. 2120B Visual Comparison Method: 2017	5 Hazen to 100 Hazen
285	CHEMICAL- WATER	Swimming Pool Water	Iron	IS 3025 (Part 53) Clause 6 RA 2014 1,10- Phenanthroline Method: 2003	0.1 mg/L to 5 mg/L
286	CHEMICAL- WATER	Swimming Pool water	Odour	IS 3025 (Part 5) (1st Rev) RA 2017: 1983	Qualitative
287	CHEMICAL- WATER	Swimming Pool Water	pH	IS 3025 (Part 11) RA 2017 Electrometric Method: 1983	1 pH to 14 pH
288	CHEMICAL- WATER	Swimming Pool Water	Total Alkalinity	IS 3025 (Part 23) Titration RA 2014 Indicator Method: 1986	10 mg/L to 2000 mg/L
289	CHEMICAL- WATER	Swimming Pool Water	Total Dissolved Solids	APHA 23rd Ed. 2540C Gravimetric Method: 2017	10 mg/L to 4000 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
290	CHEMICAL- WATER	Swimming Pool Water	Turbidity	IS 3025 (Part 10) RA 2017 Nephelometric Method: 1984	0.1 NTU to 100 NTU
291	CHEMICAL- WATER	Swimming Pool water	Taste	IS 3025 (Part 7) (1st Rev) RA 2017: 1984	Qualitative



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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
Site Facility					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Noise Levels (Excluding vibration)	Noise level Leq dBA	IS 9989 RA 2014: 1981	30 dBA to 130 dBA
2	CHEMICAL-ATMOSPHERIC POLLUTION	Atmospheric Pollution (Meterological Parameters)	Relative Humidity	SC/ LAB/STP/STMP-01 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0 % to 100 %
3	CHEMICAL-ATMOSPHERIC POLLUTION	Atmospheric Pollution (Meterological Parameters)	Temperature	SC/ LAB/STP/STMP-01 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	-40 °C to 75 °C
4	CHEMICAL-ATMOSPHERIC POLLUTION	Atmospheric Pollution (Meterological Parameters)	Wind Direction	SC/ LAB/STP/STMP-01 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0 degree to 359 degree
5	CHEMICAL-ATMOSPHERIC POLLUTION	Atmospheric Pollution (Meterological Parameters)	Wind Speed	SC/ LAB/STP/STMP-01 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0.2 m/s to 67 m/s
6	CHEMICAL-ATMOSPHERIC POLLUTION	Meterological Parameters	Rainfall	SC/ LAB/STP/STMP-01 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0 mm/h to 100 mm/h
7	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Carbon dioxide (CO ₂)	SC/ LAB/STP/STK-05 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0.1 % to 30 %



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Site Facility					
8	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Carbon Monoxide (CO)	SC/ LAB/STP/STK-05 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0 ppm to 4000 ppm
9	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Oxygen (O ₂)	SC/ LAB/STP/STK-05 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	1 % to 21 %
10	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	SC/ LAB/STP/STW-05 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0.5 mg/L to 8 mg/L
11	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	SC/ LAB/STP/STW-05 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0.5 mg/L to 8 mg/L
12	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	SC/ LAB/STP/STW-01 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	1 pH to 14 pH
13	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	SC/ LAB/STP/STW-03 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0 °C to 100 °C
14	CHEMICAL- WATER	Drinking water	pH	SC/ LAB/STP/STW-01 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	1 pH to 14 pH



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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
Site Facility					
15	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	SC/ LAB/STP/STW-05 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	1 mg/L to 10 mg/L
16	CHEMICAL- WATER	Ground water	Electrical conductivity	SC/ LAB/STP/STW-04 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	15 μ S/cm to 10,000 μ S/cm
17	CHEMICAL- WATER	Ground water	pH	SC/ LAB/STP/STW-01 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	1 pH to 14 pH
18	CHEMICAL- WATER	Ground water	Temperature	SC/ LAB/STP/STW-03 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0 °C to 100 °C
19	CHEMICAL- WATER	Surface water	Dissolved Oxygen	SC/ LAB/STP/STW-05 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	1 mg/L to 10 mg/L
20	CHEMICAL- WATER	Surface water	Electrical conductivity	SC/ LAB/STP/STW-04 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	15 μ S/cm to 10,000 μ S/cm
21	CHEMICAL- WATER	Surface water	pH	SC/ LAB/STP/STW-01 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	1 pH to 14 pH



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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
Site Facility					
22	CHEMICAL- WATER	Surface water	Temperature	SC/ LAB/STP/STW-03 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	0 °C to 100 °C
23	CHEMICAL- WATER	Swimming Pool water	pH	SC/ LAB/STP/STW-01 Date of issue: 01/08/2018 Issue no. 01 Rev: 00: 2018	1 pH to 14 pH
24	CHEMICAL- WATER	Swimming Pool water	Residual Chlorine	APHA 23rd Ed. 4500 Cl B: 2017	0.1 mg/L to 10 mg/L

'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.'