



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KGS ENVIRO LABORATORY PRIVATE LIMITED, NO.: 16, F1 , BHARATHI FLATS, BHARATHIYAR STREET, SENTHIL NAGAR, CHOLAMBEDU MAIN ROAD, THIRUMULLAIVOIL, CHENNAI, THIRUVALLUR, TAMIL NADU , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8599 Page No. : 1 / 31

Validity 31/07/2019 to 30/07/2021 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
Permanent Facility					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Ammonia as NH ₃	KGSEL/SOP/A/007, Issue No.01, Issue date 10.11: 2018	10 µg/m ³ to 700 µg/m ³
2	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Carbon Monoxide (CO)	KGSEL/SOP/A/006, Issue No.01, Issue date 10.11: 2018	1 mg/m ³ to 500 mg/m ³
3	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Nitrogen Dioxides as NO ₂	IS 5182 (Part 6): 2006 RA: 2017	5 µg/m ³ to 750 µg/m ³
4	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Ozone as O ₃	KGSEL/SOP/A/005, Issue No. 01, Issue date. 10.11: 2018	2 µg/m ³ to 500 µg/m ³
5	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (Size less than 10 µm)	IS 5182 (Part 23): 2006 RA : 2017	2 µg/m ³ to 1000 µg/m ³
6	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (Size less than 2.5 µm)	KGSEL/SOP/A/004, Issue No. 01, Issue date 10.11: 2018	10 µg/m ³ to 500 µg/m ³
7	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Sulphur Dioxide as SO ₂	IS 5182 (Part 2): 2001 RA : 2017	5 µg/m ³ to 1050 µg/m ³
8	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Noise Levels	Noise Leq (day), Leq (night)	IS 9989: 1981 RA : 2014	30 dB(A) to 130 dB(A)
9	CHEMICAL-ATMOSPHERIC POLLUTION	Illumination Monitoring	Illumination Levels	KGS/SOP/L/001: 2018	50 Lux to 10000 Lux



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10	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Carbon Dioxide (CO ₂)	IS 13270: 1992 RA : 2014	0.4 % to 16 %
11	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Carbon Monoxide (CO)	IS 13270: 1993 RA : 2014	0.4 % to 16 %
12	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Moisture Content	IS 11255 (Part 3): 2008 RA : 2018	0.1 % to 10 %
13	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Nitrogen Dioxide as NO ₂	IS 11255 (Part 7): 2005 RA : 2017	1 mg/Nm ³ to 10000 mg/Nm ³
14	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Oxygen (O ₂)	IS 13270: 1992 RA 2014, ORSAT Method, KGSEL/SOP/S/005, Issue No.01, Issue date 10.11: 2018	0.4 % to 21 %
15	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter (PM)	IS 11255 (Part 1): 1985 RA : 2014	1 mg/Nm ³ to 1000 mg/Nm ³
16	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Stack Flow Rate	IS 11255 (Part 3): 2008 RA : 2018	100 Nm ³ /Hr to 850000 Nm ³ /Hr
17	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Stack Temperature	IS 11255 (Part 3): 2008 RA : 2018	298 K to 873 K
18	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Stack Velocity	IS 11255 (Part 3): 2008 RA : 2018	2 m/s to 100 m/s



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19	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide as SO ₂	IS 11255 (Part 2): 1985 RA : 2014	1 mg/Nm ³ to 20000 mg/Nm ³
20	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Ammonia as NH ₃	KGSEL/SOP/IA/005, Issue No. 01, Issue date 10.11: 2018	10 µg/m ³ to 100 µg/m ³
21	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Carbon Monoxide (CO)	NIOSH Manual of Analytical methods (5th Edition) 6604 : 2016	1 mg/m ³ to 1000 mg/m ³
22	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Hydrogen Sulphide (H ₂ S)	KGSEL/SOP/IA/008, Issue No. 01, Issue date 10.11: 2018	0.1 mg/m ³ to 50 mg/m ³
23	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Oxides of Nitrogen (NO ₂)	KGSEL/SOP/IA/004, Issue No. 01, Issue date: 10.11: 2018	5 µg/m ³ to 1000 µg/m ³
24	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Ozone as O ₃	KGSEL/SOP/IA/006, Issue No. 01, Issue date: 10.11: 2018	2 µg/m ³ to 500 µg/m ³
25	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Sulphur Dioxide as SO ₂	ASTM-D2914-01, KGSEL/SOP/IA/003, Issue No. 01, Issue date 10.11: 2018	5 µg/m ³ to 1050 µg/m ³
26	CHEMICAL-POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water	Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 RA 2014, APHA (23rd Edition) 2320 B : 2017	1 mg/L to 10000 mg/L
27	CHEMICAL-POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water	Magnesium as Mg	APHA (23rd Edition) 3500 Mg B : 2017	0.4 mg/L to 5000 mg/L



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28	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Ammonical Nitrogen as NH ₃ -N	IS 3025 (Part 34): 1988 RA 2014, Titrimetric method, APHA (23rd Edition) 4500 NH ₃ B C : 2017	1 mg/L to 500 mg/L
29	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Calcium as Ca	IS 3025 (Part 40): 1991 RA 2014, EDTA Titrimetric method, APHA (23rd Edition) 3500 Ca B : 2017	1 mg/L to 5000 mg/L
30	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Carbonate Hardness as CaCO ₃	IS 3025 (Part 21): 2009 RA : 2014	1 mg/L to 10000 mg/L
31	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006 RA 2012, APHA (23rd Edition) 5220 B : 2017	5 mg/L to 20000 mg/L
32	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Chlorides as Cl	IS 3025 (Part 32): 1988 RA 2014, Argentometric method, APHA (23rd Edition) 4500 Cl B : 2017	1 mg/L to 20000 mg/L
33	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Dissolved Oxygen	IS 3025 (Part 38): 1989 RA : 2014	0.2 mg/L to 10 mg/L
34	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Dissolved Phosphate as P	IS 3025 (Part 31): 1988 RA 2014, APHA (23rd Edition) 4500 P, B, C : 2017	0.5 mg/L to 100 mg/L



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35	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Electrical Conductivity @ 25°C	IS 3025 (Part 14): 1984 RA 2013, APHA (23rd Edition) 2510 B : 2017	1 µS/cm to 100000 µS/cm
36	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Free Residual Chlorine	IS 3025 (Part 26): 1986 RA 2014, Iodometric method, APHA (23rd Edition) 4500 Cl B : 2017	1 mg/L to 100 mg/L
37	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Hexavalent Chromium as Cr+6	IS 3025 (Part 52): 2003 RA 2014, APHA (23rd Edition) 3500 Cr B : 2017	0.04 mg/L to 100 mg/L
38	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Non Carbonate Hardness as CaCO ₃	IS 3025 (Part 21): 2009 RA : 2014	1 mg/L to 5000 mg/L
39	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Oil and Grease	IS 3025 (Part 39): 1991 RA 2003, APHA (23rd Edition) 5520 B : 2014	1 mg/L to 2000 mg/L
40	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Percent Sodium	KGSEL/SOP/W/043 : R-00 : Issue No.01, Issue date 10.11: 2018	1 % to 100 %
41	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	pH value @ 25°C	IS 3025 (Part 11): 1983 RA 2017, APHA (23rd Edition) 4500 H+ B : 2017	1 to 14



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42	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Phenolphthalein Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 RA 2014, APHA (23rd Edition) 2320 B : 2017	1 mg/L to 1000 mg/L
43	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Potassium as K	IS 3025 (Part 45): 1993 RA 2014, APHA (23rd Edition) 3500 K B : 2017	1 mg/L to 2000 mg/L
44	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Residual Sodium Carbonate	IS 11624: 1986 RA 2015, KGSEL/SOP/W/043 Issue No. 01, Issue Date 10.11: 2015	0.1 meq/L to 20 meq/L
45	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Sodium as Na	IS 3025 (Part 45): 1993 RA 2014, APHA (23rd Edition) 3500 Na B : 2017	1 mg/L to 5000 mg/L
46	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Sulphate as SO ₄	IS 3025 (Part 24): 1986 RA 2014, APHA (23rd Edition) 4500 SO ₄ E : 2017	1 mg/L to 12000 mg/L
47	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Temperature	IS 3025 (Part 9): 1984 RA 2017, APHA (23rd Edition) 2550 B : 2017	20 °C to 60 °C
48	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Total Dissolved Solids	IS 3025 (Part 16): 1984 RA 2017, APHA (23rd Edition) 2540 C : 2017	1 mg/L to 50000 mg/L



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49	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009, EDTA Titrimetric method, RA 2014, APHA (23rd Edition) 2340 C : 2017	1 mg/L to 10000 mg/L
50	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34): 1988 RA 2014, Titrimetric method, APHA (23rd Edition) 4500 NH ₃ B C : 2017	1 mg/L to 500 mg/L
51	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Total Solids	IS 3025 (Part 15): 1984 RA 2014, APHA (23rd Edition) 2540 B : 2017	1 mg/L to 50000 mg/L
52	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Total Suspended Solids	IS 3025 (Part 17): 1984 RA 2017, APHA (23rd Edition) 2540 D : 2017	1 mg/L to 10000 mg/L
53	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Turbidity	IS 3025 (Part 10): 1984 RA 2017, APHA (23rd Edition) 2130 B : 2017	0.1 NTU to 1000 NTU
54	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant -Treated water.	Acidity as CaCO ₃	IS 3025 (Part 22): 1986 RA 2014, Indicator method, APHA (23rd Edition) 2310 B : 2017	2 mg/L to 500 mg/L
55	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water	Fluoride as F	IS 3025 (Part 60): 2008 RA 2013, APHA (23rd Edition) 4500 F D, SPADNS Method : 2017	0.1 mg/L to 20 mg/L



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56	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Ammonia as NH ₃	IS 3025 (Part 34): 1988 RA 2014, APHA (23rd Edition) 4500 NH ₃ B C : 2017	1 mg/L to 100 mg/L
57	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant - Treated water.	Bio-chemical Oxygen Demand (BOD) 3 Days @ 27 ° C	IS 3025 (Part 44): 1993 RA : 2014	2 mg/L to 5000 mg/L
58	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluents - Treated water and Sewage Treatment plant -Treated water.	Boron as B	APHA (23rd Edition) 4500 B, B, Curcumin method : 2017	0.1 mg/L to 10 mg/L
59	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Phosphorous as P	KGSEL/SOP/SL/009, Issue No. 01, Issue date 10.11: 2018	10 µg/g to 1000 µg/g
60	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Bicarbonate as HCO ₃ in Soil saturation extract	KGSEL/SOP/SL/008, Issue No. 01, Issue date 10.11: 2018	0.5 meq/L to 500 meq/L
61	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Calcium Carbonate as CaCO ₃	IS 2720 (Part 23): 1976 RA : 2015	1 % to 50 %
62	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Carbonate as CO ₃ in Soil saturation extract	KGSEL/SOP/SL/008, Issue No. 01, Issue date 10.11: 2018	0.5 meq/L to 500 meq/L
63	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Chloride as Cl in Soil saturation extract	KGSEL/SOP/SL/007, Issue No. 01, Issue date 10.11: 2018	1 meq/L to 500 meq/L
64	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic Matter	IS 2720 (Part 22): 1972 RA : 2015	0.5 % to 25 %



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65	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH value @ 25°C	IS 2720 (Part 26): 1987, Electrometric method, RA : 2016	2 to 12
66	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Soluble (Calcium as Ca + Magnesium as Mg) in soil saturation extract	KGSEL/SOP/SL/006: Issue No. 01, Issue Date, 10.11: 2018	1 meq/L to 500 meq/L
67	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Soluble Calcium as Ca in Soil saturation extract	KGSEL/SOP/SL/006, Issue No. 01, Issue date 10.11: 2018	0.5 meq/L to 500 meq/L
68	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Soluble Magnesium as Mg in Soil saturation extract	KGSEL/SOP/SL/006, Issue No. 01, Issue date 10.11: 2018	0.5 meq/L to 500 meq/L
69	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Soluble Potassium as K	KGSEL/SOP/SL/014, Issue No. 01, Issue date 10.11: 2018	0.01 meq/100g to 500 meq/100g
70	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Soluble Sodium as Na	KGSEL/SOP/SL/013, Issue No. 01, Issue date 10.11: 2018	0.01 meq/100g to 500 meq/100g
71	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Specific Electrical conductivity	IS 14767: 2000 RA : 2016	1 µS/cm to 10000 µS/cm
72	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Nitrogen as N	IS 14684: 1999 RA : 2014	0.005 % to 0.5 %
73	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Soluble Solids	IS 2720 (Part 21): 1997, Gravimetric method, RA : 2016	0.1 % to 10 %
74	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Soluble Sulphates as SO ₄	KGSEL/SOP/SL/005, Issue No. 01, Issue date 10.11: 2018	1 mg/100g to 500 mg/100g



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75	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Water Content	IS 2720 (Part 2): 1973, Oven drying method, RA : 2015	0.05 % to 25 %
76	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Phosphorus as P	IS 3025 (Part 31): 1988 RA 2014, APHA (23rd Edition) 4500 P,B,C : 2017	0.5 mg/L to 100 mg/L
77	CHEMICAL- WATER	Drinking Water	Acidity as CaCO ₃	IS 3025 (Part 22): 1986 RA 2014, APHA (23rd Edition) 2310 B : 2017	2 mg/L to 100 mg/L
78	CHEMICAL- WATER	Drinking Water	Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 RA 2014, APHA (23rd Edition) 2320 B : 2017	1 mg/L to 10000 mg/L
79	CHEMICAL- WATER	Drinking Water	Aluminium as Al	IS 3025 (Part 55): 2003 RA 2014, Erichrome Cyanine R method, APHA (23rd Edition) 3500 Al B : 2017	0.02 mg/L to 10 mg/L
80	CHEMICAL- WATER	Drinking Water	Ammonia as NH ₃	IS 3025 (Part 34): 1988 RA 2014, APHA (23rd Edition) 4500 NH ₃ B, C : 2017	0.1 mg/L to 100 mg/L
81	CHEMICAL- WATER	Drinking Water	Ammonical Nitrogen as NH ₃ -N	IS 3025 (Part 34): 1988 RA 2014, Titrimetric Method, APHA (23rd Edition) 4500 NH ₃ B, C : 2017	0.1 mg/L to 500 mg/L
82	CHEMICAL- WATER	Drinking Water	Bicarbonate Alkalinity as CaCO ₃	IS 3025 (Part 51): 2001 RA : 2017	1 mg/L to 5000 mg/L



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83	CHEMICAL- WATER	Drinking Water	Boron as B	APHA (23rd Edition) 4500 B B, Curcumin method: 2017	0.05 mg/L to 10 mg/L
84	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 (Part 40): 1991 RA 2014, EDTA Titrimetric method, APHA (23rd Edition) 3500 Ca B : 2017	0.8 mg/L to 2000 mg/L
85	CHEMICAL- WATER	Drinking Water	Calcium Hardness as CaCO ₃	APHA (23rd Edition) 3500 Ca B : 2017	1 mg/L to 2000 mg/L
86	CHEMICAL- WATER	Drinking Water	Carbonate Alkalinity as CaCO ₃	IS 3025 (Part 51): 2001 RA : 2017	1 mg/L to 5000 mg/L
87	CHEMICAL- WATER	Drinking Water	Carbonate Hardness as CaCO ₃	IS 3025 (Part 21): 2009 RA : 2014	1 mg/L to 10000 mg/L
88	CHEMICAL- WATER	Drinking Water	Chlorides as Cl	IS 3025 (Part 32): 1988 RA 2014, Argentometric Method, APHA (23rd Edition) 4500 Cl B : 2017	1 mg/L to 5000 mg/L
89	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 (Part 4): 1983 RA 2017, APHA (23rd Edition) 2120 B : 2017	1 Hazen to 500 Hazen
90	CHEMICAL- WATER	Drinking Water	Electrical Conductivity @ 25°C	IS 3025 (Part 14): 1984 RA 2013, APHA (23rd Edition) 2510 B : 2017	1 µS/cm to 100000 µS/cm
91	CHEMICAL- WATER	Drinking Water	Fixed Solids	IS 3025 (Part 18): 1984 RA 2017, APHA (23rd Edition) 2540 E : 2017	1 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
92	CHEMICAL- WATER	Drinking Water	Fluoride as F	IS 3025 (Part 60): 2008 RA 2013, APHA (23rd Edition) 4500 F D, SPADNS Method : 2017	0.1 mg/L to 10 mg/L
93	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine	IS 3025 (Part 26): 1986, Iodometric method, RA : 2014	1 mg/L to 50 mg/L
94	CHEMICAL- WATER	Drinking Water	Hexavalent Chromium as Cr+6	IS 3025 (Part 52): 2003 RA 2014, APHA (23rd Edition) 3500 Cr B : 2017	0.04 mg/L to 5 mg/L
95	CHEMICAL- WATER	Drinking Water	Iron as Fe	IS 3025 (Part 53): 2003 RA 2014, APHA (23rd Edition) 3500 Fe B : 2017	0.01 mg/L to 50 mg/L
96	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	APHA (23rd Edition) 3500 Mg B : 2017	0.3 mg/L to 2000 mg/L
97	CHEMICAL- WATER	Drinking Water	Magnesium Hardness as CaCO ₃	APHA (23rd Edition) 3500 Mg B : 2017	1 mg/L to 2000 mg/L
98	CHEMICAL- WATER	Drinking Water	Manganese as Mn	IS 3025 (Part 59): 2006, Formaldoximine Photometric method, RA : 2017	0.1 mg/L to 10 mg/L
99	CHEMICAL- WATER	Drinking Water	Nitrate as NO ₃	APHA (23rd Edition) 4500 NO ₃ B : 2017	0.5 mg/L to 400 mg/L
100	CHEMICAL- WATER	Drinking Water	Nitrite as NO ₂	IS 3025 (Part 34): 1988 RA 2014, APHA (23rd Edition) 4500 NO ₂ B : 2017	0.02 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
101	CHEMICAL- WATER	Drinking Water	Non Carbonate Hardness as CaCO ₃	IS 3025 (Part 21): 2009 RA : 2014	1 mg/L to 5000 mg/L
102	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5): 2018, APHA (23rd Edition) 2150 B : 2017	Qualitative
103	CHEMICAL- WATER	Drinking Water	pH Value @ 25°C	IS 3025 (Part 11): 1983 RA 2017, APHA (23rd Edition) 4500 H+B : 2017	3 to 12
104	CHEMICAL- WATER	Drinking Water	Phenolphthalein Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 RA 2017, APHA (23rd Edition) 2320 B : 2017	1 mg/L to 1000 mg/L
105	CHEMICAL- WATER	Drinking Water	Potassium as K	IS 3025 (Part 45): 1993 RA 2014, Flame Photometric Method, APHA (23rd Edition) 3500 K B : 2017	1 mg/L to 1000 mg/L
106	CHEMICAL- WATER	Drinking Water	Residual Sodium Carbonate	IS 11624: 1986 RA : 2009	0.1 meq/L to 20 meq/L
107	CHEMICAL- WATER	Drinking Water	Silica as SiO ₂	IS 3025 (Part 35): 1988 RA 2014, APHA (23rd Edition) 4500 SiO ₂ C D : 2017	0.1 mg/L to 500 mg/L
108	CHEMICAL- WATER	Drinking Water	Sodium Adsorption Ratio	IS 11624: 1986 RA : 2009	1 Me/L to 100 Me/L
109	CHEMICAL- WATER	Drinking water	Sodium as Na	IS 3025 (Part 45): 1993 RA 2014, Flame Photometric Method, & APHA (23rd Edition) 3500 Na B : 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
110	CHEMICAL- WATER	Drinking Water	Sulphate as SO ₄	IS 3025 (Part 24): 1986 RA 2014, Turbidity Method, APHA (23rd Edition) 4500 SO ₄ B : 2017	1 mg/L to 2000 mg/L
111	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (Part 8): 1984 RA 2017, APHA (23rd Edition) 2160 B : 2017	Qualitative
112	CHEMICAL- WATER	Drinking Water	Temperature	IS 3025 (Part 9): 1984 RA : 2017	20 °C to 50 °C
113	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16): 1984 RA 2017, APHA (23rd Edition) 2540 C : 2017	1 mg/L to 1000 mg/L
114	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009, EDTA Titrimetric method, RA 2014, APHA (23rd Edition) 2340 C : 2017	1 mg/L to 10000 mg/L
115	CHEMICAL- WATER	Drinking Water	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34): 1988 RA 2014, Titrimetric Method, APHA (23rd Edition) 4500 NH ₃ BC : 2017	1.0 mg/L to 500 mg/L
116	CHEMICAL- WATER	Drinking Water	Total Solids	IS 3025 (Part 15): 1984 RA 2014, APHA (23rd Edition) 2540 B : 2017	1 mg/L to 10000 mg/L
117	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (Part 17): 1984 RA 2017, APHA (23rd Edition) 2540 D : 2017	1 mg/L to 500 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- WATER	Drinking Water	Turbidity	IS 3025 (Part 10): 1984 RA 2017, APHA (23rd Edition) 2130 B : 2017	0.1 NTU to 500 NTU
119	CHEMICAL- WATER	Drinking Water	Volatile Solids	IS 3025 (Part 18): 1984 RA 2017, APHA (23rd Edition) 2540 E : 2017	1 mg/L to 1000 mg/L
120	CHEMICAL- WATER	Drinking Water	Water Neutralization:a)To neutralize 100mL of sample water using phenolphthalein as an indicator using 0.02N NaOH	IS 3025 (Part 22): 1986 RA : 2014	0.1 mL to 25 mL
121	CHEMICAL- WATER	Drinking Water	Water Neutralization:b) To neutralize 100mL of sample water using Mixed indicator using 0.02 N H2SO4	IS 3025 (Part 23): 1986 RA : 2014	0.1 mL to 75 mL
122	CHEMICAL- WATER	Ground Water	Acidity as CaCO3	IS 3025 (Part 22): 1986 RA 2014, APHA (23rd Edition) 2310 B : 2017	2 mg/L to 100 mg/L
123	CHEMICAL- WATER	Ground Water	Alkalinity as CaCO3	IS 3025 (Part 23): 1986 RA 2014, APHA (23rd Edition) 2320 B : 2017	1 mg/L to 10000 mg/L
124	CHEMICAL- WATER	Ground Water	Aluminium as Al	IS 3025 (Part 55): 2003 RA 2014, Erichrome Cyanine R method, APHA (23rd Edition) 3500 Al B : 2017	0.02 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
125	CHEMICAL- WATER	Ground Water	Ammonia as NH ₃	IS 3025 (Part 34): 1988 RA 2014, APHA (23rd Edition) 4500 NH ₃ B, C : 2017	0.1 mg/L to 100 mg/L
126	CHEMICAL- WATER	Ground Water	Ammonical Nitrogen as NH ₃ -N	IS 3025 (Part 34): 1988 RA 2014, Titrimetric Method, APHA (23rd Edition) 4500 NH ₃ B, C : 2017	0.1 mg/L to 500 mg/L
127	CHEMICAL- WATER	Ground Water	Bicarbonate Alkalinity as CaCO ₃	IS 3025 (Part 51): 2001 RA : 2017	1 mg/L to 5000 mg/L
128	CHEMICAL- WATER	Ground Water	Boron as B	APHA (23rd Edition) 4500 B B, Curcumin method : 2017	0.05 mg/L to 10 mg/L
129	CHEMICAL- WATER	Ground Water	Calcium as Ca	IS 3025 (Part 40): 1991 RA 2014, EDTA Titrimetric method, APHA (23rd Edition) 3500 Ca B : 2017	0.8 mg/L to 2000 mg/L
130	CHEMICAL- WATER	Ground water	Calcium Hardness as CaCO ₃	APHA (23rd Edition) 3500 Ca B : 2017	1 mg/L to 2000 mg/L
131	CHEMICAL- WATER	Ground Water	Carbonate Alkalinity as CaCO ₃	IS 3025 (Part 51): 2001 RA : 2017	1 mg/L to 5000 mg/L
132	CHEMICAL- WATER	Ground Water	Carbonate Hardness as CaCO ₃	IS 3025 (Part 21): 2009 RA : 2014	1 mg/L to 10000 mg/L
133	CHEMICAL- WATER	Ground Water	Chlorides as Cl	IS 3025 (Part 32): 1988 RA 2014, Argentometric Method, APHA (23rd Edition) 4500 Cl B : 2017	1 mg/L to 5000 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
134	CHEMICAL- WATER	Ground Water	Colour	IS 3025 (Part 4): 1983 RA 2017, APHA (23rd Edition) 2120 B : 2017	1 Hazen to 500 Hazen
135	CHEMICAL- WATER	Ground Water	Electrical Conductivity @ 25°C	IS 3025 (Part 14): 1984 RA 2013, APHA (23rd Edition) 2510 B : 2017	1 µS/cm to 100000 µS/cm
136	CHEMICAL- WATER	Ground Water	Fixed Solids	IS 3025 (Part 18): 1984 RA 2017, APHA (23rd Edition) 2540 E : 2017	1 mg/L to 10000 mg/L
137	CHEMICAL- WATER	Ground Water	Fluoride as F	IS 3025 (Part 60): 2008 RA 2013, APHA (23rd Edition) 4500 F D, SPADNS Method : 2017	0.1 mg/L to 10 mg/L
138	CHEMICAL- WATER	Ground Water	Free Residual Chlorine	IS 3025 (Part 26): 1986, Iodometric method, RA : 2014	1 mg/L to 50 mg/L
139	CHEMICAL- WATER	Ground Water	Hexavalent Chromium as Cr+6	IS 3025 (Part 52): 2003 RA 2014, APHA (23rd Edition) 3500 Cr B : 2017	0.04 mg/L to 5 mg/L
140	CHEMICAL- WATER	Ground Water	Iron as Fe	IS 3025 (Part 53): 2003 RA 2014, APHA (23rd Edition) 3500 Fe B : 2017	0.01 mg/L to 50 mg/L
141	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA (23rd Edition) 3500 Mg B : 2017	0.3 mg/L to 2000 mg/L
142	CHEMICAL- WATER	Ground Water	Magnesium Hardness as CaCO3	APHA (23rd Edition) 3500 Mg B : 2017	1 mg/L to 2000 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
143	CHEMICAL- WATER	Ground Water	Nitrate as NO ₃	APHA (23rd Edition) 4500 NO ₃ B : 2017	0.5 mg/L to 400 mg/L
144	CHEMICAL- WATER	Ground Water	Nitrite as NO ₂	IS 3025 (Part 34): 1988 RA 2014, APHA (23rd Edition) 4500 NO ₂ B : 2017	0.02 mg/L to 50 mg/L
145	CHEMICAL- WATER	Ground Water	Non carbonate Hardness as CaCO ₃	IS 3025 (Part 21): 2009 RA : 2014	1 mg/L to 5000 mg/L
146	CHEMICAL- WATER	Ground Water	Odour	IS 3025 (Part 5): 2018, APHA (23rd Edition) 2150 B : 2017	Qualitative
147	CHEMICAL- WATER	Ground Water	pH Value @ 25°C	IS 3025 (Part 11): 1983 RA 2017, APHA (23rd Edition) 4500 H+ B : 2017	3 to 12
148	CHEMICAL- WATER	Ground Water	Phenolphthalein Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 RA 2017, APHA (23rd Edition) 2320 B : 2017	1 mg/L to 1000 mg/L
149	CHEMICAL- WATER	Ground Water	Potassium as K	IS 3025 (Part 45): 1993 RA 2014, Flame Photometric Method, APHA (23rd Edition) 3500 K B : 2017	1 mg/L to 1000 mg/L
150	CHEMICAL- WATER	Ground Water	Residual Sodium Carbonate	KGSEL/SOP/W/044 Issue No. 01, Issue Date 10.11.2018, IS 11624: 1986 RA : 2009	0.1 meq/L to 20 meq/L
151	CHEMICAL- WATER	Ground Water	Silica as SiO ₂	IS 3025 (Part 35): 1988 RA 2014, APHA (23rd Edition) 4500 SiO ₂ C D : 2017	0.1 mg/L to 500 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
152	CHEMICAL- WATER	Ground Water	Sodium Adsorption Ratio	KGSEL/SOP/W/043 Issue No. 01, Issue Date 10.11.2018, IS 11624: 1986 RA : 2009	1 Me/L to 100 Me/L
153	CHEMICAL- WATER	Ground Water	Sodium as Na	IS 3025 (Part 45): 1993 RA 2014, Flame Photometric Method, APHA (23rd Edition) 3500 Na B : 2017	1 mg/ L to 1000 mg/L
154	CHEMICAL- WATER	Ground Water	Sulphate as SO ₄	IS 3025 (Part 24): 1986 RA 2014, Turbidity Method, APHA (23rd Edition) 4500 SO ₄ B : 2017	1 mg/L to 2000 mg/L
155	CHEMICAL- WATER	Ground Water	Taste	IS 3025 (Part 8): 1984 RA 2017, APHA (23rd Edition) 2160 B : 2017	Qualitative
156	CHEMICAL- WATER	Ground Water	Temperature	IS 3025 (Part 9): 1984 RA : 2017	20 °C to 50 °C
157	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025 (Part 16): 1984 RA 2017, APHA (23rd Edition) 2540 C : 2017	1 mg/L to 10000 mg/L
158	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009 RA 2014, EDTA Titrimetric method, APHA (23rd Edition) 2340 C : 2017	1 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
159	CHEMICAL- WATER	Ground Water	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34): 1988 RA 2014, Titrimetric Method, APHA (23rd Edition) 4500 NH3 BC : 2017	1.0 mg/L to 500 mg/L
160	CHEMICAL- WATER	Ground Water	Total Solids	IS 3025 (Part 15): 1984 RA 2014, APHA (23rd Edition) 2540 B : 2017	1 mg/L to 10000 mg/L
161	CHEMICAL- WATER	Ground Water	Total Suspended Solids	IS 3025 (Part 17): 1984 RA 2017, APHA (23rd Edition) 2540 D : 2017	1 mg/L to 500 mg/L
162	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10): 1984 RA 2017, APHA (23rd Edition) 2130 B : 2017	0.1 NTU to 500 NTU
163	CHEMICAL- WATER	Ground Water	Volatile Solids	IS 3025 (Part 18): 1984 RA 2017, APHA (23rd Edition) 2540 E : 2017	1 mg/L to 1000 mg/L
164	CHEMICAL- WATER	Ground Water	Water Neutralization:a)To neutralize 100mL of sample water using phenolphthalein as an indicator using 0.02N NaOH	IS 3025 (Part 22): 1986 RA : 2014	0.1 mL to 25 mL
165	CHEMICAL- WATER	Ground Water	Water Neutralization:b) To neutralize 100mL of sample water using Mixed indicator using 0.02 N H2SO4	IS 3025 (Part 23): 1986 RA : 2014	0.1 mL to 75 mL



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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
166	CHEMICAL- WATER	Group Water	Manganese as Mn	IS 3025 (Part 59): 2006, Formaldoximine Photometric method, RA : 2017	0.1 mg/L to 10 mg/L
167	CHEMICAL- WATER	Industrial Water	Acidity as CaCO ₃	IS 3025 (Part 22): 1986 RA 2014, APHA (23rd Edition) 2310 B : 2017	2 mg/L to 100 mg/L
168	CHEMICAL- WATER	Industrial Water	Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 RA 2014, APHA (23rd Edition) 2320 B : 2017	1 mg/L to 10000 mg/L
169	CHEMICAL- WATER	Industrial Water	Aluminium as Al	IS 3025 (Part 55): 2003 RA 2014, Erichrome Cyanine R method, APHA (23rd Edition) 3500 Al B : 2017	0.02 mg/L to 10 mg/L
170	CHEMICAL- WATER	Industrial Water	Ammonia as NH ₃	IS 3025 (Part 34): 1988 RA 2014, APHA (23rd Edition) 4500 NH ₃ B C : 2017	0.1 mg/L to 100 mg/L
171	CHEMICAL- WATER	Industrial Water	Ammonical Nitrogen as NH ₃ -N	IS 3025 (Part 34): 1988 RA 2014, Titrimetric Method, APHA (23rd Edition) 4500 NH ₃ B, C : 2017	0.1 mg/L to 500 mg/L
172	CHEMICAL- WATER	Industrial Water	Bicarbonate Alkalinity as CaCO ₃	IS 3025 (Part 51): 2001 RA : 2017	1 mg/L to 5000 mg/L
173	CHEMICAL- WATER	Industrial Water	Boron as B	APHA (23rd Edition) 4500 B B, Curcumin method : 2017	0.05 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
174	CHEMICAL- WATER	Industrial Water	Calcium as Ca	IS 3025 (Part 40): 1991 RA 2014, EDTA Titrimetric method, APHA (23rd Edition) 3500 Ca B : 2017	0.8 mg/L to 2000 mg/L
175	CHEMICAL- WATER	Industrial Water	Calcium Hardness as CaCO ₃	APHA (23rd Edition) 3500 Ca B : 2017	1 mg/L to 2000 mg/L
176	CHEMICAL- WATER	Industrial Water	Carbonate Alkalinity as CaCO ₃	IS 3025 (Part 51): 2001 RA : 2017	1 mg/L to 5000 mg/L
177	CHEMICAL- WATER	Industrial Water	Carbonate Hardness as CaCO ₃	IS 3025 (Part 21): 2009 RA : 2014	1 mg/L to 10000 mg/L
178	CHEMICAL- WATER	Industrial Water	Colour	IS 3025 (Part 4): 1983 RA 2017, APHA (23rd Edition) 2120 B : 2017	1 Hazen to 500 Hazen
179	CHEMICAL- WATER	Industrial Water	Electrical Conductivity @ 25°C	IS 3025 (Part 14): 1984 RA 2013, APHA (23rd Edition) 2510 B : 2017	1 µS/cm to 100000 µS/cm
180	CHEMICAL- WATER	Industrial water	Fixed Solids	IS 3025 (Part 18): 1984 RA 2017, APHA (23rd Edition) 2540 E : 2017	1 mg/L to 10000 mg/L
181	CHEMICAL- WATER	Industrial Water	Fluoride as F	IS 3025 (Part 60): 2008 RA 2013, APHA (23rd Edition) 4500 F D, SPADNS Method : 2017	0.1 mg/L to 10 mg/L
182	CHEMICAL- WATER	Industrial Water	Free Residual Chlorine	IS 3025 (Part 26): 1986, Iodometric method, RA : 2014	1 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
183	CHEMICAL- WATER	Industrial Water	Hexavalent Chromium as Cr+6	IS 3025 (Part 52): 2003 RA 2014, APHA (23rd Edition) 3500 Cr B : 2017	0.04 mg/L to 5 mg/L
184	CHEMICAL- WATER	Industrial Water	Iron as Fe	IS 3025 (Part 53): 2003 RA 2014, APHA (23rd Edition) 3500 Fe B : 2017	0.01 mg/L to 50 mg/L
185	CHEMICAL- WATER	Industrial Water	Magnesium as Mg	APHA (23rd Edition) 3500 Mg B : 2017	0.3 mg/L to 2000 mg/L
186	CHEMICAL- WATER	Industrial Water	Magnesium Hardness as CaCO ₃	APHA (23rd Edition) 3500 Mg B : 2017	1 mg/L to 2000 mg/L
187	CHEMICAL- WATER	Industrial Water	Manganese as Mn	IS 3025 (Part 59): 2006, Formaldoximine Photometric method, RA : 2017	0.1 mg/L to 10 mg/L
188	CHEMICAL- WATER	Industrial Water	Nitrate as NO ₃	APHA (23rd Edition) 4500 NO ₃ B : 2017	0.5 mg/L to 400 mg/L
189	CHEMICAL- WATER	Industrial Water	Nitrite as NO ₂	IS 3025 (Part 34): 1988 RA 2014, APHA (23rd Edition) 4500 NO ₂ B : 2017	0.02 mg/L to 50 mg/L
190	CHEMICAL- WATER	Industrial Water	Non Carbonate Hardness as CaCO ₃	IS 3025 (Part 21): 2009 RA : 2014	1 mg/L to 5000 mg/L
191	CHEMICAL- WATER	Industrial Water	Odour	IS 3025 (Part 5): 2018, APHA (23rd Edition) 2150 B : 2017	Qualitative
192	CHEMICAL- WATER	Industrial Water	Percent Sodium	KGSEL/SOP/W/043 Issue No. 01, Issue Date 10.11: 2018	1 % to 100 %



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193	CHEMICAL- WATER	Industrial Water	pH Value @ 25°C	IS 3025 (Part 11): 1983 RA 2017, APHA (23rd Edition) 4500 H+B : 2017	3 to 12
194	CHEMICAL- WATER	Industrial Water	Phenolphthalein Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 RA 2014, APHA (23rd Edition) 2320 B : 2017	1 mg/L to 1000 mg/L
195	CHEMICAL- WATER	Industrial Water	Potassium as K	IS 3025 (Part 45): 1993 RA 2014, Flame Photometric Method, APHA (23rd Edition) 3500 : 2017	1 mg/L to 1000 mg/L
196	CHEMICAL- WATER	Industrial Water	Residual Sodium Carbonate	KGSEL/SOP/W/044 Issue No. 01, Issue Date:10.11.2018, IS 11624: 1986 RA : 2009	0.1 meq/L to 20 meq/L
197	CHEMICAL- WATER	Industrial Water	Silica as SiO ₂	IS 3025 (Part 35): 1988 RA 2014, APHA (23rd Edition) 4500 SiO ₂ C D : 2017	0.1 mg/L to 500 mg/L
198	CHEMICAL- WATER	Industrial Water	Sodium as Na	IS 3025 (Part 45): 1993 RA 2014, Flame Photometric Method, APHA (23rd Edition) 3500 Na B : 2017	1 mg/L to 1000 mg/L
199	CHEMICAL- WATER	Industrial Water	Sulphate as SO ₄	IS 3025 (Part 24): 1986 RA 2014, Turbidity Method, APHA (23rd Edition) 4500 SO ₄ B : 2017	1 mg/L to 2000 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
200	CHEMICAL- WATER	Industrial Water	Taste	IS 3025 (Part 8): 1984 RA 2017, APHA (23rd Edition) 2160 B : 2017	Qualitative
201	CHEMICAL- WATER	Industrial Water	Temperature	IS 3025 (Part 9): 1984 RA : 2017	20 °C to 50 °C
202	CHEMICAL- WATER	Industrial Water	Total Dissolved Solids	IS 3025 (Part 16): 1984 RA 2017, APHA (23rd Edition) 2540 C : 2017	1 mg/L to 10000 mg/L
203	CHEMICAL- WATER	Industrial Water	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009, EDTA Titrimetric method, RA 2014, APHA (23rd Edition) 2340 C : 2017	1 mg/L to 10000 mg/L
204	CHEMICAL- WATER	Industrial Water	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34): 1988 RA 2014, Titrimetric Method, APHA (23rd Edition) 4500 NH ₃ B, C : 2017	1 mg/L to 500 mg/L
205	CHEMICAL- WATER	Industrial Water	Total solids	IS 3025 (Part 15): 1984 RA 2014, APHA (23rd Edition) 2540 B : 2017	1 mg/L to 10000 mg/L
206	CHEMICAL- WATER	Industrial Water	Total Suspended Solids	IS 3025 (Part 17): 1984 RA 2017, APHA (23rd Edition) 2540 D : 2017	1 mg/L to 500 mg/L
207	CHEMICAL- WATER	Industrial Water	Turbidity	IS 3025 (Part 10): 1984 RA 2017, APHA (23rd Edition) 2130 B : 2017	0.1 NTU to 500 NTU
208	CHEMICAL- WATER	Industrial Water	Volatile Solids	IS 3025 (Part 18): 1984 RA 2017, APHA (23rd Edition) 2540 E : 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
209	CHEMICAL- WATER	Industrial Water	Water Neutralization:a)To neutralize 100mL of sample water using phenolphthalein as an indicator using 0.02N NaOH	IS 3025 (Part 22): 1986 RA : 2014	0.1 mL to 25 mL
210	CHEMICAL- WATER	Industrial Water	Water Neutralization:b) To neutralize 100mL of sample water using Mixed indicator using 0.02 N H2SO4	IS 3025 (Part 23): 1986 RA : 2014	0.1 mL to 75 mL
211	CHEMICAL- WATER	Surface Water	Acidity as CaCO3	IS 3025 (Part 22):1986 RA 2014, APHA (23rd Edition) 2310 B: 2017	2 mg/L to 100 mg/L
212	CHEMICAL- WATER	Surface Water	Alkalinity as CaCO3	IS 3025 (Part 23):1986 RA 2014, APHA (23rd Edition) 2320 B: 2017	1 mg/L to 10000 mg/L
213	CHEMICAL- WATER	Surface Water	Aluminium as Al	IS 3025 (Part 55) 2003 RA 2014, Eriochrome Cyanine R Method, APHA (23rd Edition) 3500 Al B: 2017	0.02 mg/L to 10 mg/L
214	CHEMICAL- WATER	Surface Water	Ammonia as NH3	IS 3025 (Part 34): 1988 RA 2014, APHA (23rd Edition) 4500 NH3 B,C : 2017	0.1 mg/L to 100 mg/L
215	CHEMICAL- WATER	Surface Water	Ammonical Nitrogen as NH3-N	IS 3025 (Part 34): 1988 RA 2014, Titrimetric method, APHA (23rd Edition) 4500 NH3 B, C : 2017	0.1 mg/L to 500 mg/L



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216	CHEMICAL- WATER	Surface Water	Bicarbonate Alkalinity as CaCO ₃	IS 3025 (Part 51): 2001 RA : 2017	1 mg/L to 5000 mg/L
217	CHEMICAL- WATER	Surface Water	Boron as B	APHA (23rd Edition) 4500 B B, Curcumin method, : 2017	0.05 mg/L to 10 mg/L
218	CHEMICAL- WATER	Surface Water	Calcium as Ca	IS 3025 (Part 40): 1991 RA 2014, EDTA Titrimetric method, APHA (23rd Edition) 3500 Ca B : 2017	0.8 mg/L to 2000 mg/L
219	CHEMICAL- WATER	Surface Water	Calcium Hardness as CaCO ₃	APHA (23rd Edition) 3500 Ca B : 2017	1 mg/L to 2000 mg/L
220	CHEMICAL- WATER	Surface Water	Carbonate Alkalinity as CaCO ₃	IS 3025 (Part 51): 2001 RA: 2017	1 mg/L to 5000 mg/L
221	CHEMICAL- WATER	Surface Water	Carbonate Hardness as CaCO ₃	IS 3025 (Part 21): 2009 RA : 2014	1 mg/L to 10000 mg/L
222	CHEMICAL- WATER	Surface Water	Chlorides as Cl	IS 3025 (Part 32):1988 RA 2014, Argentometric Method, APHA (23rd Edition) 4500 Cl- B : 2017	1 mg/L to 5000 mg/L
223	CHEMICAL- WATER	Surface Water	Colour	IS 3025 (Part 4): 1983 RA 2017, APHA (23rd Edition) 2120 B : 2017	1 Hazen to 500 Hazen
224	CHEMICAL- WATER	Surface Water	Electrical Conductivity @ 25°C	IS 3025 (Part 14): 1984 RA 2013, APHA (23rd Edition) 2510 B : 2017	1 µS/cm to 100000 µS/cm
225	CHEMICAL- WATER	Surface Water	Fixed Solids	IS 3025 (Part 18): 1984 RA 2017, APHA (23rd Edition) 2540 E : 2017	1 mg/L to 10000 mg/L



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226	CHEMICAL- WATER	Surface Water	Fluoride as F	IS 3025 (Part 60): 2008 RA 2013, APHA (23rd Edition) 4500 F- D, SPADNS Method : 2017	0.1 mg/L to 10 mg/L
227	CHEMICAL- WATER	Surface Water	Free Residual Chlorine	IS 3025 (Part 26): 1986, Iodometric method, RA : 2014	1 mg/L to 50 mg/L
228	CHEMICAL- WATER	Surface Water	Hexavalent Chromium as Cr+6	IS 3025 (Part 52): 2003 RA 2014, APHA (23rd Edition) 3500 Cr B : 2017	0.04 mg/L to 5 mg/L
229	CHEMICAL- WATER	Surface Water	Iron as Fe	IS 3025 (Part 53): 2003 RA 2014, APHA (23rd Edition) 3500 Fe B: 2017	0.01 mg/L to 50 mg/L
230	CHEMICAL- WATER	Surface Water	Magnesium as Mg	APHA (23rd Edition) 3500 Mg B: 2017	0.3 mg/L to 2000 mg/L
231	CHEMICAL- WATER	Surface Water	Magnesium Hardness as CaCO ₃	APHA (23rd Edition) 3500 Mg B: 2017	1 mg/L to 2000 mg/L
232	CHEMICAL- WATER	Surface Water	Manganese as Mn	IS 3025 (Part 59): 2006 Formaldoxime Photometric method, RA : 2017	0.1 mg/L to 10 mg/L
233	CHEMICAL- WATER	Surface Water	Nitrate as NO ₃	APHA (23rd Edition) 4500 NO ₃ B: 2017	0.5 mg/L to 400 mg/L
234	CHEMICAL- WATER	Surface Water	Nitrite as NO ₂	IS 3025 (Part 34): 1988 RA 2014, APHA (23rd Edition) 4500 NO ₂ B : 2017	0.02 mg/L to 50 mg/L



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235	CHEMICAL- WATER	Surface Water	Non-Carbonate Hardness as CaCO ₃	IS 3025 (Part 21): 2009 RA : 2014	1 mg/L to 5000 mg/L
236	CHEMICAL- WATER	Surface Water	Odour	IS 3025 (Part 5): 2018, APHA (23rd Edition) 2150 B : 2017	Qualitative
237	CHEMICAL- WATER	Surface Water	Percent Sodium	KGSEL/SOP/W/043, Issue No. 01, Issue Date 10.11: 2018	1 % to 100 %
238	CHEMICAL- WATER	Surface Water	pH value @ 25°C	IS 3025 (Part 11): 1983 RA 2017, APHA (23rd Edition) 4500 H+B : 2017	3 to 12
239	CHEMICAL- WATER	Surface Water	Phenolphthalein Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 RA 2017, APHA (23rd Edition) 2320 B : 2017	1 mg/L to 1000 mg/L
240	CHEMICAL- WATER	Surface Water	Potassium as K	IS 3025 (Part 45): 1993 RA 2014, Flame Photometric method, APHA (23rd Edition) 3500 K, B : 2017	1 mg/L to 1000 mg/L
241	CHEMICAL- WATER	Surface Water	Residual Sodium Carbonate	KGSEL/SOP/W/044 Issue No. 01, Issue Date: 10.11.2018, IS 11624: 1986 RA : 2009	0.1 meq/L to 20 meq/L
242	CHEMICAL- WATER	Surface Water	Silica as SiO ₂	IS 3025 (Part 35): 1988 RA 2014, APHA (23rd Edition) 4500 SiO ₂ C D : 2017	0.1 mg/L to 500 mg/L



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243	CHEMICAL- WATER	Surface Water	Sodium as Na	IS 3025 (Part 45): 1993 RA 2014, Flame Photometric method, APHA (23rd Edition) 3500 Na, B : 2017	1 mg/L to 1000 mg/L
244	CHEMICAL- WATER	Surface Water	Sulphate as SO ₄	IS 3025 (Part 24): 1986 RA 2014, Turbidity Method, APHA (23rd Edition) 4500 SO ₄ B : 2017	1 mg/L to 2000 mg/L
245	CHEMICAL- WATER	Surface Water	Taste	IS 3025 (Part 8): 1984 RA 2017, APHA (23rd Edition) 2160 B : 2017	Qualitative
246	CHEMICAL- WATER	Surface Water	Temperature	IS 3025 (Part 9): 1984 RA: 2017	20 °C to 50 °C
247	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025 (Part 16): 1984 RA 2017, APHA (23rd Edition) 2540 C : 2017	1 mg/L to 10000 mg/L
248	CHEMICAL- WATER	Surface Water	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009, EDTA Titrimetric method, RA 2014, APHA (23rd Edition) 2340 C : 2017	1 mg/L to 10000 mg/L
249	CHEMICAL- WATER	Surface Water	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34): 1988 RA 2014, Titrimetric method, APHA (23rd Edition) 4500 NH ₃ BC : 2017	1.0 mg/L to 500 mg/L
250	CHEMICAL- WATER	Surface Water	Total Solids	IS 3025 (Part 15): 1984 RA 2014, APHA (23rd Edition) 2540 B : 2017	1 mg/L to 10000 mg/L



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251	CHEMICAL- WATER	Surface Water	Total Suspended Solid	IS 3025 (Part 17): 1984 RA 2017, APHA (23rd Edition) 2540 D : 2017	1 mg/L to 500 mg/L
252	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part 10):1984 RA 2017, APHA (23rd Edition) 2130 B : 2017	0.1 NTU to 500 NTU
253	CHEMICAL- WATER	Surface Water	Volatile Solids	IS 3025 (Part 18): 1984 RA 2017, APHA (23rd Edition) 2540 E : 2017	1 mg/L to 1000 mg/L
254	CHEMICAL- WATER	Surface Water	Water Neutralization: a) To neutralize 100 ml of sample water using phenolphthalein as an indicator using 0.02 N NaOH	IS 3025 (Part 22): 1986 RA : 2014	0.1 mL to 25 mL
255	CHEMICAL- WATER	Surface Water	Water Neutralization: b) To neutralize 100ml of sample water using Mixed indicator using 0.02N H2SO4	IS 3025 (Part 23): 1986 RA : 2014	0.1 mL to 75 mL