National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : KIWIS ECO LABORATORIES PRIVATE LIMITED, PLOT NO.19, ALEAP INDUSTRIAL ESTATE,SY NO. 342, GAJULARAMARAM VILLAGE, QUTBULLAPUR MANDAL & MUNICIPALITY, HYDERABAD, RANGA REDDY, TELANGANA, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ammonia	KIWIS/SOP/AAQ/LAB-234
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Lead (Pb)	IS 5182: Part 22
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Dioxide (NO2)	IS 5182: Part 6 :2006, RA
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone (O3)	IS 5182(Part IX): 1974(RA :2014)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (Size less than 10µm)or PM10	IS 5182: Part 23: 2006, RA
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (Size less than 2.5µm)or PM2.5	KIWIS/SOP/AAQ/LAB-241
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO2)	IS 5182: Part 2: 2001, RA 2017
8	CHEMICAL- ATMOSPHERIC POLLUTION	Noise Level Monitoring	Noise Levels Leq dB(A)	IS 9989: 1981 (RA 2001)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Source/Stack Emissions Monitoring	Oxides of Nitrogen (NOx)	IS:11255 (Part-7) 2005 (Reaffirmed 2012)
10	CHEMICAL- ATMOSPHERIC POLLUTION	Source/Stack Emissions Monitoring	Particulate Matter	IS 11255 (Part 1) – 1985 (Reaffirmed 2009)
11	CHEMICAL- ATMOSPHERIC POLLUTION	Source/Stack Emissions Monitoring	Sulphur Dioxide (SO2)	IS 11255 (Part 2) – 1985 (Reaffirmed 1995)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Acidity as CaCO3	APHA 23rdEdition, 2017; 2310 B
13	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Acidity as CaCO3	APHA 23rdEdition, 2017; 2310 B
14	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Alkalinity as CaCO3	APHA 23rdEdition, 2017; 2320 B
15	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Alkalinity as CaCO3	APHA 23rdEdition, 2017; 2320 B
16	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Bio Chemical Oxygen Demand for 5 Days at 20 oC	APHA 23rdEdition, 2017; 5210 B
17	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Bio Chemical Oxygen Demand for 5 Days at 20 oC	APHA 23rdEdition, 2017; 5210 B
18	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Bio- Chemical Oxygen Demand(3 Days at 27oC)	IS : 3025(Part-44) 1999, reaffirmed 2014

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Bio- Chemical Oxygen Demand(3 Days at 27oC)	IS : 3025(Part-44) 1999, reaffirmed 2014
20	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Boron as B	APHA 23rdEdition, 2017; 4500-B B (Curcumin Method)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Cadmium Cd	APHA 23rdEdition, 2017; 3111 B
22	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Cadmium Cd	APHA 23rdEdition, 2017; 3111 B
23	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Calcium as Ca	APHA 23rdEdition, 2017; 3500 Ca B
24	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Calcium as Ca	APHA 23rdEdition, 2017; 3500 Ca B
25	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Chemical Oxygen Demand	APHA 23rdEdition, 2017; 5220 B
26	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Chemical Oxygen Demand	APHA 23rdEdition, 2017; 5220 B
27	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Chlorides as Cl-	APHA 23rdEdition, 2017; 4500 Cl- B
28	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Chlorides as Cl-	APHA 23rdEdition, 2017; 4500 Cl- B
29	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Color	APHA 23rdEdition, 2017; 2120 C
30	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Conductivity @ 25oC	APHA 23rd Edition, 2017; 2510 B
31	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Conductivity @ 25oC	APHA 23rd Edition, 2017; 2510 B
32	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Copper as Cu	APHA 23rdEdition, 2017; 3111 B
33	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Cyanide	APHA 23rd Edition, 2017; 4500 CN- C, E
34	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Cyanide	APHA 23rd Edition, 2017; 4500 CN- C, E
35	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Dissolved Oxygen	APHA 23rdEdition, 2017; 4500 O C
36	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Fixed Solids at 550 0C	APHA 23rdEdition, 2017; 2540 E
37	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Fixed Solids at 550 0C	APHA 23rdEdition, 2017; 2540 E

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Fluorides as F-	APHA 23rdEdition, 2017; 4500 F- D
39	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Fluorides as F-	APHA 23rdEdition, 2017; 4500 F- D
40	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Hexavalent Chromium as Cr+6	APHA 23rdEdition, 2017; 3500 Cr B
41	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Hexavalent Chromium as Cr+6	APHA 23rdEdition, 2017; 3500 Cr B
42	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Iron as Fe	APHA 23rdEdition, 2017; 3500 Fe B
43	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Iron as Fe	APHA 23rdEdition, 2017; 3500 Fe B
44	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Lead as Pb	APHA 23rdEdition, 2017; 3111 B
45	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Lead as Pb	APHA 23rdEdition, 2017; 3111 B
46	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Magnesium as Mg	APHA 23rdEdition, 2017; 3500 Mg B
47	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Magnesium as Mg	APHA 23rdEdition, 2017; 3500 Mg B
48	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Manganese as Mn	APHA 23rdEdition, 2017; 3111 B
49	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Manganese as Mn	APHA 23rdEdition, 2017; 3111 B
50	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Mercury as Hg	APHA 23rd Edition, 2017;3112 B
51	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Nickel as Ni	APHA 23rdEdition, 2017; 3111 B
52	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Nickel as Ni	APHA 23rdEdition, 2017; 3111 B
53	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Nitrate Nitrogen as N	IS: 3025 (Part 34):1988; Reaffirmed2014 (3.4; Page.10, 11)- Devarda's alloy method
54	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Nitrate Nitrogen as N	IS: 3025 (Part 34):1988; Reaffirmed2014 (3.4; Page.10, 11)- Devarda's alloy method
55	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Nitrite Nitrogen as N	APHA 23rd Edition, 2017; 4500 NO2 – B(Colorimetric Method)

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56	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Nitrite Nitrogen as N	APHA 23rd Edition, 2017; 4500 NO2 – B(Colorimetric Method)
57	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Nitrogen (Ammonia) as N	APHA 23rdEdition, 2017; 4500 NH3 B, C
58	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Nitrogen (Ammonia) as N	APHA 23rdEdition, 2017; 4500 NH3 B, C
59	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Nitrogen (Organic) as N	APHA 23rdEdition, 2017; 4500 N (org) B
60	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Nitrogen (Organic) as N	APHA 23rdEdition, 2017; 4500 N (org) B
61	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Oil & Grease	APHA 23rdEdition, 2017; 5520 B
62	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated Effluents)	pH @ 25 oC	APHA 23rdEdition, 2017; 4500 H+ B
63	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Phenolic Compounds as Phenols	APHA 23rdEdition, 2017; 5530 D (Direct Photometric Method)
64	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Phosphorus as P	APHA 23rdEdition, 2017; 4500 P C
65	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Phosphorus as P	APHA 23rdEdition, 2017; 4500 P C
66	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Potassium as K	APHA 23rdEdition, 2017; 3500 K B
67	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Potassium as K	APHA 23rdEdition, 2017; 3500 K B
68	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Residual Chlorine as Cl	APHA 23rdEdition, 2017; 4500 Cl B
69	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Silica as SiO2	APHA 23rdEdition, 2017; 4500 SiO2 C
70	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Silica as SiO2	APHA 23rdEdition, 2017; 4500 SiO2 C
71	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Sodium as Na	APHA 23rdEdition, 2017; 3500 Na B
72	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Sodium as Na	APHA 23rdEdition, 2017; 3500 Na B
73	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Sulphates as SO4-2	APHA 23rdEdition, 2017; 4500 SO4-2 D
74	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Sulphates as SO4-2	APHA 23rdEdition, 2017; 4500 SO4-2 D

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75	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Sulphide as S-2	APHA 23rdEdition, 2017; 4500 S2 F
76	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Temperature	APHA 23rdEdition, 2017; 2550 –A, B
77	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Total Chromium as Cr	APHA 23rdEdition, 2017; 3111 B
78	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Total Chromium as Cr	APHA 23rdEdition, 2017; 3111 B
79	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Total Dissolved Solids at 180 0C	APHA 23rdEdition, 2017; 2540 C
80	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Total Dissolved Solids at 180 0C	APHA 23rdEdition, 2017; 2540 C
81	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Total Hardness as CaCO3	APHA 23rdEdition, 2017; 2340 C
82	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Total Hardness as CaCO3	APHA 23rdEdition, 2017; 2340 C
83	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Total Solids at 103 -105 0C	APHA 23rdEdition, 2017; 2540 B
84	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Total Solids at 103 -105 0C	APHA 23rdEdition, 2017; 2540 B
85	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Total Suspended Solids at 103 -105 0C	APHA 23rdEdition, 2017; 2540 D
86	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Total Suspended Solids at 103 -105 0C	APHA 23rdEdition, 2017; 2540 D
87	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Volatile Solids at 550 0C	APHA 23rdEdition, 2017; 2540 E
88	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Volatile Solids at 550 0C	APHA 23rdEdition, 2017; 2540 E
89	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Zinc as Zn	APHA 23rdEdition, 2017; 3111 B
90	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Liquid Effluents, ETP Water, STP Water, Treated effluents)	Zinc as Zn	APHA 23rdEdition, 2017; 3111 B
91	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Iron as Fe	APHA 23rdEdition, 2017; 3500 Fe B
92	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Lead as Pb	APHA 23rdEdition, 2017; 3111 B
93	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Nickel as Ni	APHA 23rdEdition, 2017; 3111 B

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94	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Zinc as Zn	APHA 23rdEdition, 2017; 3111 B
95	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Boron as B	APHA 23rdEdition, 2017; 4500-B B (Curcumin Method)
96	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Cadmium Cd	APHA 23rd Edition, 2017; 3111 B
97	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Copper as Cu	APHA 23rdEdition, 2017; 3111 B
98	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Hexavalent Chromium as Cr+6	APHA 23rdEdition, 2017; 3500 Cr B
99	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Hexavalent Chromium as Cr+6	APHA 23rdEdition, 2017; 3500 Cr B
100	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Iron as Fe	APHA 23rdEdition, 2017; 3500 Fe B
101	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Manganese as Mn	APHA 23rdEdition, 2017; 3111 B
102	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Mercury as Hg	APHA 23rdEdition, 2017; 3112 B
103	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Total Chromium as Cr	APHA 23rdEdition, 2017; 3111 B
104	CHEMICAL- RESIDUES IN WATER	Surface water / Bore water/ Ground water/ Drinking water	Total Cyanide as CN-	APHA 23rd Edition 4500 CN-C, E
105	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediment	Available Magnesium as Mg	Soil Testing Manual GOI,2011,Page 102-105
106	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediment	Available Potassium as K	FAO
107	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediment	Copper as Cu	USEPA - 3050B Dec-1996 (Rev.2) USEPA SW 846-7210
108	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Available Calcium as Ca	Soil Testing Manual GOI,2011,Page 102-105
109	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Available Calcium as Ca	Soil Testing Manual GOI,2011,Page 102-105
110	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Available Nitrogen as N	IS 14684:1999
111	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Available Nitrogen as N	IS 14684:1999;
112	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Available Phosphorus as P	Soil Testing Manual GOI,2011,Page 95-99

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113	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Available Phosphorus as P	Soil Testing Manual GOI,2011,Page 95-99
114	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Available Potassium as K	FAO
115	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Available Sodium as Na	Soil Testing Manual GOI,2011,Page 74-75
116	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Available Sodium as Na	Soil Testing Manual GOI,2011,Page 74-75
117	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Bulk Density	IS 2720: Part 28: 1974 (By Cylinder method) RA
118	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Cadmium as Cd	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846-,7130
119	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Chromium as Cr	USEPA - 3050B Dec-1996 (Rev.2) USEPA SW 846-7190
120	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Chromium as Cr	USEPA - 3050B Dec-1996 (Rev.2) USEPA SW 846-7190
121	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Copper as Cu	USEPA - 3050B Dec-1996 (Rev.2) USEPA SW 846-7210
122	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Electrical Conductivity	IS14767:2000,
123	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Iron as Fe	USEPA- 3050B Dec-1996 (Rev.2)by UV-Vis spectrophotometer
124	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Lead as Pb	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846-, 7420
125	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Manganese as Mn	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846--7460
126	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Manganese as Mn	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846--7460
127	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Moisture	IS 9235-1979, RA
128	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Nickel as Ni	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846--7520
129	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Nickel as Ni	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846--7520
130	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Organic Carbon	IS 2720 (part 22) - 1972

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
131	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	pH	IS 2720(Part 26) - 1987 (RA:2011)
132	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Total Kjeldahl Nitrogen	IS 14684:1999
133	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Total Kjeldahl Nitrogen	IS 14684:1999
134	CHEMICAL- SOIL AND ROCK	Soil and Rock / Sediments	Zinc as Zn	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846-, 7950
135	CHEMICAL- SOIL AND ROCK	Soil and Rock /Sediments	Lead as Pb	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846-, 7420
136	CHEMICAL- SOIL AND ROCK	Soil and Rock /Sediments	Lead as Pb	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846-, 7420
137	CHEMICAL- SOIL AND ROCK	Soil and Rock /Sediments	Zinc as Zn	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846-, 7950
138	CHEMICAL- SOIL AND ROCK	Soil and Rock/Sediments	Cadmium as Cd	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846-,7130
139	CHEMICAL- SOIL AND ROCK	Soil and Rock/Sediments	Manganese as Mn	USEPA- 3050B Dec-1996 (Rev.2) USEPA SW 846--7460
140	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Conductivity @ 25oC	APHA 23rdEdition, 2017; 2510 B
141	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Acidity as CaCO3	APHA 23rd Edition, 2017; 2310 B
142	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Acidity as CaCO3	APHA 23rd Edition, 2017; 2310 B
143	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Alkalinity as CaCO3	APHA 23rdEdition, 2017; 2320 B
144	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Alkalinity as CaCO3	APHA 23rdEdition, 2017; 2320 B
145	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Bio - Chemical Oxygen Demand for 5 Days at 20 oC.	APHA 23rdEdition, 2017; 5210 B, 4500-O C
146	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Calcium as Ca	APHA 23rdEdition, 2017; 3500 Ca B
147	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Chemical Oxygen Demand	APHA 23rdEdition, 2017; 5220 B
148	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Chemical Oxygen Demand	APHA 23rdEdition, 2017; 5220 B
149	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Chlorides as Cl-	APHA 23rd Edition, 2017; 4500 Cl- B

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150	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Chlorides as Cl-	APHA 23rd Edition, 2017; 4500 Cl- B
151	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Color	APHA 23rdEdition, 2017; 2120 C
152	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Conductivity @ 25oC	APHA 23rdEdition, 2017; 2510 B
153	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Fluorides as F-	APHA 23rdEdition, 2017; 4500 F- D
154	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Nitrate Nitrogen as N	APHA 23rdEdition, 2017; 4500 NO3- B
155	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Nitrite Nitrogen as N	APHA 23rdEdition, 2017; 4500 NO2 – B(Colorimetric Method)
156	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Oil & Grease	APHA 23rdEdition, 2017; 5520 B
157	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	pH @ 25oC	APHA 23rdEdition, 2017; 4500 H+ B
158	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Phosphorus as P	APHA 23rd Edition, 2017; 4500 P C
159	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Phosphorus as P	APHA 23rd Edition, 2017; 4500 P C
160	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Residual Free Chlorine	APHA 23rdEdition 2017; 4500 Cl B
161	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Sulphates as SO4-2	APHA 23rdEdition, 2017; 4500 SO4-2 D
162	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Sulphates as SO4-2	APHA 23rdEdition, 2017; 4500 SO4-2 D
163	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Temperature	APHA 23rd Edition, 2017; 2550–A, B
164	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Total Dissolved Solids at 180 oC	APHA 23rdEdition, 2017; 2540 C
165	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Total Dissolved Solids at 180 oC	APHA 23rdEdition, 2017; 2540 C
166	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Total Hardness as CaCO3	APHA 23rdEdition, 2017; 2340 C
167	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Total Hardness as CaCO3	APHA 23rdEdition, 2017; 2340 C
168	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Total Suspended Solids at 103 -105 oC	APHA 23rdEdition, 2017; 2540 D

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169	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Total Suspended Solids at 103 -105 oC	APHA 23rdEdition, 2017; 2540 D
170	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Turbidity	APHA 23rdEdition, 2017: 2130 B
171	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Bio - Chemical Oxygen Demand for 5 Days at 20oC	APHA 23rdEdition, 2017; 5210 B, 4500-O C
172	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Bio - Chemical Oxygen Demand(3 Days at 27oC)	IS : 3025(Part-44) 1999, (RA:2003)
173	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Bio - Chemical Oxygen Demand(3 Days at 27oC)	IS : 3025(Part-44) 1999, (RA:2003)
174	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Calcium as Ca	APHA 23rdEdition, 2017; 3500 Ca B
175	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Dissolved Oxygen	APHA 23rdEdition, 2017; 4500 O C
176	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Magnesium as Mg	APHA 23rdEdition, 2017; 3500 Mg B
177	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Magnesium as Mg	APHA 23rdEdition, 2017; 3500 Mg B
178	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	phenolic compounds as C6H5OH	APHA 23rdEdition, 2017; 5530 D (Direct Photometric Method)
179	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Potassium as K	APHA 23rdEdition, 2017; 3500 K B
180	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Silica as SiO2	APHA 23rdEdition, 2017; 4500 SiO2 C
181	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Sodium as Na	APHA 23rdEdition, 2017; 3500 Na B
182	CHEMICAL- WATER	Surface water / Bore water/ Ground water/ Drinking water	Sodium as Na	APHA 23rdEdition, 2017; 3500 Na B