National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SWASTI ENVIRO SOLUTIONS PVT LTD, PLOT NO.J 86, BHARATHI STREET, PARI NAGAR, JAFFERKHANPET, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10448 **Page No** 1 of 8

Validity 29/03/2022 to 28/03/2024 **Last Amended on** 10/05/2023

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 Monitoring	Ammonia (as NH3)	SOP A06, Issue No: 01, Issue date: June 2015
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Nitrogen dioxide (as NO2)	IS 5182 (Part 06)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Particulate Matter less than 10 micron size (PM10)	IS 5182 (Part 23)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Particulate Matter less than 2.5 micron size (PM2.5)	SOP A02, Issue No.01, Issue Date: June 2018
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Sulphur Dioxide (as SO2)	IS 5182 (Part 02)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Carbon Dioxide (as CO2)	IS 13270
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Carbon Monoxide (as CO)	IS 13270
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Oxygen (as O2)	IS 13270
9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Sulphur Dioxide as SO2	IS 11255 (Part 02)
10	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Ammonia (as NH3)	NIOSH 4th Edition Method No:6015
11	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Nitrogen dioxide (as NO2)	NIOSH 4th edition Method No: 6014
12	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Respirable Aerosol mass	NIOSH 4th Edition Method No. 0600
13	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Total Aerosol mass	NOISH 4th Edition Method No: 0500
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Ammonical Nitrogen	IS 3025 (Part 34)
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	pH at 25°C	IS 3025 (Part 11)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Calcium as Ca	IS 3025 (Part 40)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Dissolved Oxygen	IS 3025 (Part 38,4)

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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
19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Electrical Conductivity	IS 3025 (Part 14)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Free Ammonia as NH3	IS 3025 (Part 34)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Hexavalent Chromium as Cr6	IS 3025 (Part 52)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Iron as Fe	IS 3025 (Part 53)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Magnesium hardness as CaCO3	APHA 23rd Edn. 3500 Mg B
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Nitrate as NO3	IS 3025 (Part 34)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Phosphate as PO4	IS 3025 (Part 31)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Temperature	IS 3025 (Part 9)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Total Dissolved Solids (TDS)	IS 3025 (Part 16)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Total Residual chlorine as Cl	IS 3025 (Part 26)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Total Suspended Solids	IS 3025 (Part 17)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Turbidity	IS 3025 (Part 10)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Acidity as CaCO3	IS 3025 (Part 22)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Biological Oxygen Demand (BOD) @ 27°C for 3 days	IS 3025 (Part 44)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Copper as Cu	IS 3025 (Part 42)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Fluoride as F	APHA 23rd Edn. 4500 F- B,D
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Magnesium as Mg	IS 3025 (Part 46)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Oil & Grease	IS 3025 (Part 39)
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Acidity as CaCO3	APHA 23rd Edn. - 2310 B

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Boron as B	APHA 23rd Edn. - 4500 - B/B
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Boron as B	IS 3025 (Part 57)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Calcium Hardness as CaCO3	APHA 23rd Edn. 3500 Ca B
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Chloride as Cl	APHA 23rd Edn - 4500 Cl- B
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Chloride as Cl	IS 3025 (Part 32)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Colour	APHA 23rd Edn. - 2120 B
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Colour	IS 3025 (Part 4) (Pt- Co) visual comparison method
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Hexavalent Chromium as Cr6	APHA 23rd Edn.- 3500 Cr-B
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Potassium as K	APHA 23rd Edn. -3500 – K-B
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Potassium as K	IS 3025 (Part 45)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Silica as Si	APHA 23rd Edn. -4500 SiO2-C
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Sodium as Na	APHA 23rd Edn. -3500 – K-B
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Sodium as Na	IS 3025 (Part 45)
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Sulphates as SO4	APHA 23rd Edn. 4500 SO42 E
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Sulphates as SO4	IS 3025 (Part 24)
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Temperature	APHA 23rd Edn. - 2550 B
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Total / carbonate & non-carbonate hardness as CaCO3	APHA 23rd Edn. -2340 A,C&2320 B
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Total / carbonate & non-carbonate hardness as CaCO3	IS 3025 (Part 21)
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Total Dissolved Solids (TDS)	APHA 23rd Edn. - 2540 C

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57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Total Kjeldahl Nitrogen	APHA 23rd Edn. - 4500 - Norg – A, B
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Total Kjeldahl Nitrogen	IS 3025 (Part 34)
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Total Suspended Solids	APHA 23rd Edn. - 2540 D
60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Liquid Effluents and Sewage)	Total/Phenolphthalein/Carbonate/Hydroxide/Bicarbonate alkalinity as CaCO3	IS 3025 (Part 23)
61	CHEMICAL- RESIDUES IN WATER	Drinking Water	Boron as B	APHA 23rd Edn. - 4500 - B/B
62	CHEMICAL- RESIDUES IN WATER	Drinking Water	Boron as B	IS 3025 (Part 57)
63	CHEMICAL- RESIDUES IN WATER	Drinking Water	Iron as Fe	IS 3025 (Part 53)
64	CHEMICAL- RESIDUES IN WATER	Drinking Water	Magnesium as Mg	IS 3025 (Part 46)
65	CHEMICAL- RESIDUES IN WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Boron as B	APHA 23rd Edn. - 4500 - B/B
66	CHEMICAL- RESIDUES IN WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Boron as B	IS 3025 (Part 57)
67	CHEMICAL- RESIDUES IN WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Copper as Cu	IS 3025 (Part 42)
68	CHEMICAL- RESIDUES IN WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Fluoride as F	APHA 23rd Edn. 4500 F D
69	CHEMICAL- RESIDUES IN WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Fluoride as F	IS 3025 (Part 60,5)
70	CHEMICAL- WATER	Construction Water	Chloride as Cl	APHA 23rd Edn - 4500 Cl- B
71	CHEMICAL- WATER	Construction Water	Chloride as Cl	IS 3025 (Part 32)
72	CHEMICAL- WATER	Construction Water	Fixed Residue	IS 3025 (Part 18)
73	CHEMICAL- WATER	Construction Water	pH at 25°C	IS 3025 (Part 11)
74	CHEMICAL- WATER	Construction Water	Sulphates as SO4	APHA 23rd Edn. 4500 SO42 E
75	CHEMICAL- WATER	Construction Water	Sulphates as SO4	IS 3025 (Part 24)
76	CHEMICAL- WATER	Construction Water	Suspended Solids	IS 3025 (Part 17)
77	CHEMICAL- WATER	Construction Water	Volatile Residue	IS 3025 (Part 18)
78	CHEMICAL- WATER	Drinking Water	Calcium as Ca	APHA 23rd Edn. - 3500 Ca B

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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
79	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 (Part 40)
80	CHEMICAL- WATER	Drinking Water	Chloride as Cl	APHA 23rd Edn. - 4500 Cl- B
81	CHEMICAL- WATER	Drinking Water	Chloride as Cl	IS 3025 (Part 32)
82	CHEMICAL- WATER	Drinking Water	Colour	APHA 23rd Edn. - 2120 B
83	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 (Part 4)
84	CHEMICAL- WATER	Drinking Water	Copper as Cu	IS 3025 (Part 42)
85	CHEMICAL- WATER	Drinking Water	Electrical Conductivity	IS 3025 (Part 14)
86	CHEMICAL- WATER	Drinking Water	Fluoride as F	APHA 23rd Edn 4500 F- B,D
87	CHEMICAL- WATER	Drinking Water	Hexavalent Chromium as Cr6	APHA 23rd Edn.- 3500 Cr-B
88	CHEMICAL- WATER	Drinking Water	Hexavalent Chromium as Cr6	IS 3025 (Part 52)
89	CHEMICAL- WATER	Drinking Water	Magnesium hardness as CaCO3	APHA 23rd Edn 3500 Mg B
90	CHEMICAL- WATER	Drinking Water	Nitrate as NO3	IS 3025 (Part 34)
91	CHEMICAL- WATER	Drinking Water	Silica	APHA 23rd Edn. -4500 SiO2-C
92	CHEMICAL- WATER	Drinking Water	Silica	IS 3025 (Part 35)
93	CHEMICAL- WATER	Drinking Water	Sulphates as SO4	IS 3025 (Part 24)
94	CHEMICAL- WATER	Drinking Water	Total Acidity as CaCO3	APHA 23rd Edn. - 2310 B
95	CHEMICAL- WATER	Drinking Water	Total Acidity as CaCO3	IS 3025 (Part 22)
96	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	IS 3025 (Part 23)
97	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids (TDS)	APHA 23rd Edn. - 2540 C
98	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids (TDS)	IS 3025 (Part 16)
99	CHEMICAL- WATER	Drinking Water	Total hardness as CaCO3	APHA 23rd Edn. -2340 A,C&2320 B
100	CHEMICAL- WATER	Drinking Water	Total hardness as CaCO3	IS 3025 (Part 21)
101	CHEMICAL- WATER	Drinking Water	Total Phosphate as P	IS 3025 (Part 31)
102	CHEMICAL- WATER	Drinking Water	Total Residual chlorine as Cl	IS 3025 (Part 26)
103	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	APHA 23rd Edn. - 2540 D
104	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (Part 17)
105	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
106	CHEMICAL- WATER	Drinking Water,	Calcium hardness as CaCO3	APHA 23rd Edition 3500 Ca B
107	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Hexavalent Chromium as Cr6	APHA 23rd Edn.- 3500 Cr-B

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108	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Hexavalent Chromium as Cr6	IS 3025 (Part 52)
109	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Ammonical Nitrogen	IS 3025 (Part 34)
110	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Calcium as Ca	APHA 23rd Edn. - 3500 Ca B
111	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Calcium as Ca	IS 3025 (Part 40)
112	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Calcium hardness as CaCO3	APHA 23rd Edn. 3500 Ca B
113	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Chloride as Cl	APHA 23rd Edn. - 4500 Cl- B
114	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Chloride as Cl	IS 3025 (Part 32)
115	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Dissolved Oxygen	IS 3025 (Part 38,4)
116	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Electrical Conductivity	IS 3025 (Part 14)
117	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Free Ammonia as NH3	IS 3025 (Part 34)
118	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Iron as Fe	IS 3025 (Part 53)
119	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Magnesium as Mg	APHA 23rd Edn. 3500 Mg B
120	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Magnesium as Mg	IS 3025 (Part 46,6)
121	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Magnesium hardness as CaCO3	APHA 23rd Edn. 3500 Mg B
122	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Nitrate Nitrogen as NO3	IS 3025 (Part 34)
123	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	pH at 25°C	IS 3025 (Part 11)
124	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Potassium as K	APHA 23rd Edn. -3500 – K-B
125	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Potassium as K	IS 3025 (Part 45)
126	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Silica as Si	APHA 23rd Edn. -4500 SiO2-C

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127	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Silica as Si	IS 3025 (Part 35)
128	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Sodium as Na	APHA 23rd Edn. -3500 – K-B
129	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Sodium as Na	IS 3025 (Part 45)
130	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Sulphates as SO4	IS 3025 (Part 24)
131	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Total / carbonate & non-carbonate hardness as CaCO3	APHA 23rd Edn. -2340 A,C&2320 B
132	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Total / carbonate & non-carbonate hardness as CaCO3	IS 3025 (Part 21)
133	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Total Acidity as CaCO3	APHA 23rd Edn. - 2310 B
134	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Total Acidity as CaCO3	IS 3025 (Part 22)
135	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Total Dissolved Solids (TDS)	APHA 23rd Edn. - 2540 C
136	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Total Dissolved Solids (TDS)	IS 3025 (Part 16)
137	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Total Phosphate as P	IS 3025 (Part 31)
138	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Total Residual chlorine as Cl	IS 3025 (Part 26)
139	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Total Suspended Solids	APHA 23rd Edn. - 2540 D
140	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Total/Phenolphthalein/Carbonate/Hydroxide/Bicarbonate alkalinity as CaCO3	IS 3025 (Part 23)
141	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	TotalSuspended Solids	IS 3025 (Part 17)
142	CHEMICAL- WATER	Well Water, Borewell Water, Surface Water, Packaged Drinking water	Turbidity	IS 3025 (Part 10)

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Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Oxides of Nitrogen (as NOx)	IS 11255 (Part 7)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Particulate Matter	IS 11255 (Part 01)