National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : T.R. ASSOCIATES LABORATORY, SURVEY NO. 272/3, ROYAL ENFIELD SHOWROOM LANE,S.G HIGHWAY, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7896 **Page No** 1 of 16

Validity 25/11/2022 to 24/11/2024 **Last Amended on** -

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	IS 5182 PART 25
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Chlorine	IS 5182 (Part 19)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	CO	Lab STP No. TRA/STP/AA/08, Issue No 03, Issue Date 20/05/2020
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Oxides Of Nitrogen NO2	IS 5182 (Part 6)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Ozone	IS 5182 (Part 9)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (PM-10)	IS 5182 (Part 23)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (PM-2.5)	IS 5182 (Part 24)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur Dioxide (SO2)	IS 5182 (Part 2)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Total VOCs as Isobutylene	Lab STP No. TRA/STP/AA/07, Issue No 03, Issue Date 20/05/2020
10	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Levels	Ambient Noise Levels	IS 9989
11	CHEMICAL- ATMOSPHERIC POLLUTION	D G Set	Source Noise Level	TRA/STP/SN/02 Issue No : 03, Issue Date : 20/05/2020, Based on CPCB guidline
12	CHEMICAL- ATMOSPHERIC POLLUTION	Metrological Parameters	Relative Humidity	BIS SP61:1994 / Lab SOP No. TRA/SOP/AW/01, Issue No 03 Issue Date 20/05/2020, based on manufacturer manual
13	CHEMICAL- ATMOSPHERIC POLLUTION	Metrological Parameters	Temperature	BIS SP61:1994 / Lab SOP No. TRA/SOP/AW/01, Issue No 03 Issue Date 20/05/2020, based on manufacturer manual
14	CHEMICAL- ATMOSPHERIC POLLUTION	Metrological parameters	Wind direction	BIS SP61:1994 / Lab SOP No. TRA/SOP/AW/01, Issue No 03 Issue Date 20/05/2020, based on manufacturer manual

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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
15	CHEMICAL- ATMOSPHERIC POLLUTION	Metrological Parameters	Wind speed	BIS SP61:1994 / Lab SOP No. TRA/SOP/AW/01, Issue No 03 Issue Date 20/05/2020, based on manufacturer manual
16	CHEMICAL- ATMOSPHERIC POLLUTION	Metrological Parametrs	Rain fall	BIS SP61:1994 / Lab SOP No. TRA/SOP/AW/01, Issue No 03 Issue Date 20/05/2020, based on manufacturer manual
17	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Ammonia (as NH3)	IS 11255 (Part 6)
18	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Dioxide (Co2)	IS 13270
19	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Monoxide (CO)	IS 13270
20	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxides Of Nitrogen (NO2)	IS 11255 (Part 7)
21	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxygen (O2)	IS 13270
22	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter	IS 11255 (Part 1)
23	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide (SO2)	IS 11255 (Part 2)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Phosphorous	TRA/STP/SL/07 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
25	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Bulk Density	IS 2720 (Part 29)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Calcium as Ca	TRA/STP/SL/10 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
27	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Cation Exchange Capacity	TRA/STP/SL/05 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
28	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Electrical Conductivity	IS 14767

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29	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Magnesium as Mg	TRA/STP/SL/11 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
30	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Moisture	IS 2720 (Part 2)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Nitrate	TRA/STP/SL/16 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing Of India Ministry of Agriculture India
32	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic matter / Organic Carbon	TRA/STP/SL/13 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
33	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Particle Size Distribution	IS 2720 (Part 4)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH	IS 2720 (Part 26)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Potassium as K	TRA/STP/SL/08 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
36	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Sodium adsorption ratio	TRA/STP/SL/12 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
37	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Sodium as Na	TRA/STP/SL/09 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
38	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Texture	TRA/STP/SL/17 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing Of India Ministry of Agriculture India
39	CHEMICAL- POLLUTION & ENVIRONMENT	soil	Total Nitrogen	TRA/STP/SL/06 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
40	CHEMICAL- POLLUTION & ENVIRONMENT	soil	Water holding Capacity	TRA/STP/SL/04, Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India

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41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Acidity	IS 3025 (Part 22)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Alkalinity	IS 3025 (Part 23)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Aluminum	APHA (23rd Edition) 3500 Al- B
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Ammonical Nitrogen	APHA (23rd Edition) 4500 NH3 C
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biochemical Oxygen Demand	IS 3025 (Part 44)
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Boron	IS 3025 (Part-57)
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium as Ca+2	APHA 23rd Ed. 3500 - Ca: B
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium Hardness	APHA 23rd Ed. 3500 - Ca: B
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand	APHA 23rd Ed. 5220 B
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chloride as Cl-	IS 3025 (Part 32)
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Colour	APHA (23rd Edition) 2120 B
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Copper	APHA (23rd Edition) 3500 Cu C
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Cyanide	APHA (23rd Edition) 4500 CN- E
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Dissolved Oxygen	IS 3025 (Part 38)
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Electric Conductivity	IS 3025 (Part 14)
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Fixed Residue	IS 3025 (Part- 18)
57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Fluoride	APHA (23rd Edition) 4500 F- D
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Hexa Chromium	IS 3025 (Part-52)
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Iron	APHA (23rd Edition) 3500 Fe B

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60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Magnesium as Mg+2	APHA 23rd Ed. 3500 - Mg: B
61	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Magnesium hardness	APHA 23rd Ed. 3500 - Mg: B
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Manganese	APHA (23rd Edition) 3500 Mn B.
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nickel	IS 3025 (Part-54)
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nitrate	IS 3025 (Part-34)
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nitrite	IS 3025 (Part-34)
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Oil And Grease	IS 3025 (Part 39)
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH	IS 3025 (Part 11)
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phenol	APHA (23rd Edition) 5530 D
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phosphate	APHA (23rd Edition) 4500 P D
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phosphorous	APHA (23rd Edition) 4500 P D
71	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Potassium	APHA (23rd Edition) 3500 K B.
72	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Residual Chlorine	APHA (23rd Edition) 4500 Cl B
73	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Silica	APHA (23rd Edition) 4500 SiO2-C
74	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sodium	APHA (23rd Edition) 3500 Na B.
75	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphate as SO4-2	APHA (23rd Edition)-4500 SO4-2E
76	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphide	APHA (23rd Edition) 4500 S2- F
77	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphite	APHA (23rd Edition) 4500 S03-2 B
78	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Temperature	IS 3025 (Part 9)

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79	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Chromium	IS 3025 (Part-52)
80	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolved Solids	IS 3025 (Part 16)
81	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Hardness	APHA 23rd Ed. 2340 – C
82	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Solids	IS 3025 (Part 15)
83	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	IS 3025 (Part 17)
84	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Turbidity	APHA (23rd Edition) 2130 B
85	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Volatile Residue	IS 3025 (Part-18)
86	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water Water from Purifiers, Waste water	Copper	APHA (23rd Edition) 3500 Cu C
87	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water Water from Purifiers, Waste water	Cyanide	APHA (23rd Edition) 4500 CN- E
88	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water Water from Purifiers, Waste water	Hexa Chromium	IS 3025 (Part-52)
89	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water Water from Purifiers, Waste water	Nickel	IS 3025 (Part-54)
90	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water Water from Purifiers, Waste water	Total Chromium	IS 3025 (Part-52)
91	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Aluminum	APHA (23rd Edition) 3500 Al- B
92	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Boron	IS 3025 (Part-57)
93	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Iron	APHA (23rd Edition) 3500 Fe B
94	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Manganese	APHA (23rd Edition) 3500 Mn B.
95	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Temperature	IS 3025 (Part 9)
96	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Acidity	IS 3025 (Part 22)
97	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Alkalinity	IS 3025 (Part 23)

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98	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Ammonical Nitrogen	APHA (23rd Edition) 4500 NH3 C
99	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Biochemical Oxygen Demand	IS 3025 (Part 44)
100	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Calcium as Ca+2	APHA 23rd Ed. 3500 - Ca: B
101	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Calcium Hardness	APHA 23rd Ed. 3500 - Ca: B
102	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Chemical Oxygen Demand	APHA 23rd Ed. 5220 B
103	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Chloride as Cl-	IS 3025 (Part 32)
104	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Colour	APHA (23rd Edition) 2120 B
105	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Dissolved Oxygen	IS 3025 (Part 38)
106	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Electric Conductivity	IS 3025 (Part 14)
107	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Fixed Residue	IS 3025 (Part-18)
108	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Fluoride	APHA (23rd Edition) 4500 F- D
109	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Magnesium as Mg+2	APHA 23rd Ed. 3500 - Mg: B
110	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Magnesium hardness	APHA 23rd Ed. 3500 - Mg: B
111	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Nitrate	IS 3025 (Part-34)
112	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Nitrite	IS 3025 (Part-34)
113	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Odour	IS 3025 (Part 5)
114	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Oil And Grease	IS 3025 (Part 39)
115	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	pH	IS 3025 (Part 11)
116	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Phenol	APHA (23rd Edition) 5530 D

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117	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Phosphate	APHA (23rd Edition) 4500 P D
118	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Phosphorous	APHA (23rd Edition) 4500 P D
119	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Potassium	APHA (23rd Edition) 3500 K B.
120	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Residual Chlorine	APHA (23rd Edition) 4500 Cl B
121	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Silica	APHA (23rd Edition) 4500 SiO2-C
122	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Sodium	APHA (23rd Edition) 3500 Na B.
123	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Sulphate as SO4-2	APHA (23rd Edition)-4500 SO4-2E
124	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Sulphide	APHA (23rd Edition) 4500 S2- F
125	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Sulphite	APHA (23rd Edition) 4500 S03-2 B
126	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Total Dissolved Solids	IS 3025 (Part 16)
127	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Total Hardness	APHA 23rd Ed. 2340 – C
128	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Total Solids	IS 3025 (Part 15)
129	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Total Suspended Solids	IS 3025 (Part 17)
130	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Turbidity	APHA (23rd Edition) 2130 B
131	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Volatile Residue	IS 3025 (Part-18)

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Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Ammonia	IS 5182 PART 25
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Chlorine	IS 5182 (Part 19)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	CO	Lab STP No. TRA/STP/AA/08, Issue No 03, Issue Date 20/05/2020
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Oxides Of Nitrogen NO2	IS 5182 (Part 6)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Ozone	IS 5182 (Part 9)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (PM-10)	IS 5182 (Part 23)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (PM-2.5)	IS 5182 (Part 24)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur Dioxide (SO2)	IS 5182 (Part 2)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Total VOCs as Isobutylene	Lab STP No. TRA/STP/AA/07, Issue No 03, Issue Date 20/05/2020
10	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Levels	Ambient Noise Levels	IS 9989
11	CHEMICAL- ATMOSPHERIC POLLUTION	D G Set	Source Noise Level	TRA/STP/SN/02 Issue No : 03, Issue Date : 20/05/2020, Based on CPCB guidline
12	CHEMICAL- ATMOSPHERIC POLLUTION	Metrological Parameters	Relative Humidity	BIS SP61:1994 / Lab SOP No. TRA/SOP/AW/01, Issue No 03 Issue Date 20/05/2020, based on manufacturer manual
13	CHEMICAL- ATMOSPHERIC POLLUTION	Metrological Parameters	Temperature	BIS SP61:1994 / Lab SOP No. TRA/SOP/AW/01, Issue No 03 Issue Date 20/05/2020, based on manufacturer manual
14	CHEMICAL- ATMOSPHERIC POLLUTION	Metrological parameters	Wind direction	BIS SP61:1994 / Lab SOP No. TRA/SOP/AW/01, Issue No 03 Issue Date 20/05/2020, based on manufacturer manual

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15	CHEMICAL- ATMOSPHERIC POLLUTION	Metrological Parameters	Wind speed	BIS SP61:1994 / Lab SOP No. TRA/SOP/AW/01, Issue No 03 Issue Date 20/05/2020, based on manufacturer manual
16	CHEMICAL- ATMOSPHERIC POLLUTION	Metrological Parametrs	Rain fall	BIS SP61:1994 / Lab SOP No. TRA/SOP/AW/01, Issue No 03 Issue Date 20/05/2020, based on manufacturer manual
17	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Ammonia (as NH3)	IS 11255 (Part 6)
18	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Dioxide (Co2)	IS 13270
19	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Monoxide (CO)	IS 13270
20	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxides Of Nitrogen (NO2)	IS 11255 (Part 7)
21	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxygen (O2)	IS 13270
22	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter	IS 11255 (Part 1)
23	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide (SO2)	IS 11255 (Part 2)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Phosphorous	TRA/STP/SL/07 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
25	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Bulk Density	IS 2720 (Part 29)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Calcium as Ca	TRA/STP/SL/10 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
27	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Cation Exchange Capacity	TRA/STP/SL/05 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
28	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Electrical Conductivity	IS 14767

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29	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Magnesium as Mg	TRA/STP/SL/11 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
30	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Moisture	IS 2720 (Part 2)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Nitrate	TRA/STP/SL/16 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing Of India Ministry of Agriculture India
32	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic matter / Organic Carbon	TRA/STP/SL/13 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
33	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Particle Size Distribution	IS 2720 (Part 4)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH	IS 2720 (Part 26)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Potassium as K	TRA/STP/SL/08 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
36	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Sodium adsorption ratio	TRA/STP/SL/12 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
37	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Sodium as Na	TRA/STP/SL/09 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
38	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Texture	TRA/STP/SL/17 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing Of India Ministry of Agriculture India
39	CHEMICAL- POLLUTION & ENVIRONMENT	soil	Total Nitrogen	TRA/STP/SL/06 Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India
40	CHEMICAL- POLLUTION & ENVIRONMENT	soil	Water holding Capacity	TRA/STP/SL/04, Issue No 03 Issue Date 20/05/2020, Based On Soil Testing of India Ministry of Agriculture India

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41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Acidity	IS 3025 (Part 22)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Alkalinity	IS 3025 (Part 23)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Aluminum	APHA (23rd Edition) 3500 Al- B
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Ammonical Nitrogen	APHA (23rd Edition) 4500 NH3 C
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biochemical Oxygen Demand	IS 3025 (Part 44)
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Boron	IS 3025 (Part-57)
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium as Ca+2	APHA 23rd Ed. 3500 - Ca: B
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium Hardness	APHA 23rd Ed. 3500 - Ca: B
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand	APHA 23rd Ed. 5220 B
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chloride as Cl-	IS 3025 (Part 32)
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Colour	APHA (23rd Edition) 2120 B
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Copper	APHA (23rd Edition) 3500 Cu C
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Cyanide	APHA (23rd Edition) 4500 CN- E
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Dissolved Oxygen	IS 3025 (Part 38)
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Electric Conductivity	IS 3025 (Part 14)
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Fixed Residue	IS 3025 (Part- 18)
57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Fluoride	APHA (23rd Edition) 4500 F- D
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Hexa Chromium	IS 3025 (Part-52)
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Iron	APHA (23rd Edition) 3500 Fe B

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60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Magnesium as Mg+2	APHA 23rd Ed. 3500 - Mg: B
61	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Magnesium hardness	APHA 23rd Ed. 3500 - Mg: B
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Manganese	APHA (23rd Edition) 3500 Mn B.
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nickel	IS 3025 (Part-54)
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nitrate	IS 3025 (Part-34)
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nitrite	IS 3025 (Part-34)
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Oil And Grease	IS 3025 (Part 39)
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH	IS 3025 (Part 11)
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phenol	APHA (23rd Edition) 5530 D
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phosphate	APHA (23rd Edition) 4500 P D
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phosphorous	APHA (23rd Edition) 4500 P D
71	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Potassium	APHA (23rd Edition) 3500 K B.
72	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Residual Chlorine	APHA (23rd Edition) 4500 Cl B
73	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Silica	APHA (23rd Edition) 4500 SiO2-C
74	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sodium	APHA (23rd Edition) 3500 Na B.
75	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphate as SO4-2	APHA (23rd Edition)-4500 SO4-2E
76	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphide	APHA (23rd Edition) 4500 S2- F
77	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphite	APHA (23rd Edition) 4500 S03-2 B
78	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Temperature	IS 3025 (Part 9)

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79	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Chromium	IS 3025 (Part-52)
80	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolved Solids	IS 3025 (Part 16)
81	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Hardness	APHA 23rd Ed. 2340 – C
82	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Solids	IS 3025 (Part 15)
83	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	IS 3025 (Part 17)
84	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Turbidity	APHA (23rd Edition) 2130 B
85	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Volatile Residue	IS 3025 (Part-18)
86	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water Water from Purifiers, Waste water	Copper	APHA (23rd Edition) 3500 Cu C
87	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water Water from Purifiers, Waste water	Cyanide	APHA (23rd Edition) 4500 CN- E
88	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water Water from Purifiers, Waste water	Hexa Chromium	IS 3025 (Part-52)
89	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water Water from Purifiers, Waste water	Nickel	IS 3025 (Part-54)
90	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water Water from Purifiers, Waste water	Total Chromium	IS 3025 (Part-52)
91	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Aluminum	APHA (23rd Edition) 3500 Al- B
92	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Boron	IS 3025 (Part-57)
93	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Iron	APHA (23rd Edition) 3500 Fe B
94	CHEMICAL- RESIDUES IN WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Manganese	APHA (23rd Edition) 3500 Mn B.
95	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Temperature	IS 3025 (Part 9)
96	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Acidity	IS 3025 (Part 22)
97	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Alkalinity	IS 3025 (Part 23)

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98	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Ammonical Nitrogen	APHA (23rd Edition) 4500 NH3 C
99	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Biochemical Oxygen Demand	IS 3025 (Part 44)
100	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Calcium as Ca+2	APHA 23rd Ed. 3500 - Ca: B
101	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Calcium Hardness	APHA 23rd Ed. 3500 - Ca: B
102	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Chemical Oxygen Demand	APHA 23rd Ed. 5220 B
103	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Chloride as Cl-	IS 3025 (Part 32)
104	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Colour	APHA (23rd Edition) 2120 B
105	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Dissolved Oxygen	IS 3025 (Part 38)
106	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Electric Conductivity	IS 3025 (Part 14)
107	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Fixed Residue	IS 3025 (Part-18)
108	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Fluoride	APHA (23rd Edition) 4500 F- D
109	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Magnesium as Mg+2	APHA 23rd Ed. 3500 - Mg: B
110	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Magnesium hardness	APHA 23rd Ed. 3500 - Mg: B
111	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Nitrate	IS 3025 (Part-34)
112	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Nitrite	IS 3025 (Part-34)
113	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Odour	IS 3025 (Part 5)
114	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Oil And Grease	IS 3025 (Part 39)
115	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	pH	IS 3025 (Part 11)
116	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Phenol	APHA (23rd Edition) 5530 D

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117	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Phosphate	APHA (23rd Edition) 4500 P D
118	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Phosphorous	APHA (23rd Edition) 4500 P D
119	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Potassium	APHA (23rd Edition) 3500 K B.
120	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Residual Chlorine	APHA (23rd Edition) 4500 Cl B
121	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Silica	APHA (23rd Edition) 4500 SiO2-C
122	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Sodium	APHA (23rd Edition) 3500 Na B.
123	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Sulphate as SO4-2	APHA (23rd Edition)-4500 SO4-2E
124	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Sulphide	APHA (23rd Edition) 4500 S2- F
125	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Sulphite	APHA (23rd Edition) 4500 S03-2 B
126	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Total Dissolved Solids	IS 3025 (Part 16)
127	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Total Hardness	APHA 23rd Ed. 2340 – C
128	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Total Solids	IS 3025 (Part 15)
129	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Total Suspended Solids	IS 3025 (Part 17)
130	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Turbidity	APHA (23rd Edition) 2130 B
131	CHEMICAL- WATER	Surface water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Volatile Residue	IS 3025 (Part-18)