National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNISTAR ENVIRONMENT AND RESEARCH LABS PVT. LTD. (LABORATORY DIVISION-DAHEJ), PLOT NO. D-II, E-177 & 178, DAHEJ-II INDUSTRIAL ESTATE, BHARUCH, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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 as NH3	IS 5182 (Part 25)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Carbon Disulphide as CS2	IS 5182 (Part 20)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Carbon Monoxide as CO	IS 5182 (Part 10) Indicator Tube Method
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Chlorine as Cl2	IS 5182 (Part 19) Methyl Orange Method
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Hydrogen Fluoride as HF	IS 5182 (Part 13) Zirconium - Spand Method
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Hydrogen Sulphide as H2S	IS 5182 (Part 07)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Oxide of Nitrogen as NO2	IS 5182 (Part 6) Colorimetric Method
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone as O3	IS 5182 (Part 09)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate matter as PM10	IS 5182 (Part 23)
10	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate matter as PM2.5	IS 5182 (Part 24)
11	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide as SO2	IS 5182 (Part 2) Colorimetric Method
12	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Total Fluorides as F	IS 5182 (Part 13) Selective Ion Electrode method
13	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Total Fluorides as F	IS 5182 (Part 13) Zirconium-Spand method
14	CHEMICAL- ATMOSPHERIC POLLUTION	D.G. Set Stack Emission	Particulate Matter (PM)	IS 11255 (Part 1)
15	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emission	Sulphur Dioxide as SOx	IS 11255 (Part 2) Titration Method
16	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Ammonia as NH3	IS 11255 (Part 6) Nessler Reagent Method
17	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Ammonia as NH3	IS 11255 (Part 6) Titration Method
18	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Carbon Disulphide as CS2	IS 11255 (Part 4) Titration Method

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19	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Chlorine as Cl2	SA EPA Method 03.04
20	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Hydrogen Fluoride as HF	IS 11255 (Part 5) Ion Electrode Method
21	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Hydrogen Sulphide as H2S	IS 11255 (Part 4) Titration Method
22	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Oxide of Nitrogen as NOx	IS 11255 (Part 7) Colorimetric Method
23	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Sulphur Trioxide as SO3 /Acid Mist	SA EPA Method 03.02
24	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Total Acidity	SA EPA Method 03.11
25	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Total Fluoride as F	IS 11255 (Part 5) Ion Electrode Method
26	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Particulate matter	IS 11255 (Part 01)
27	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Ammonia as NH3	IS 11255 (Part 06) Nessler Reagent Method
28	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Ammonia as NH3	IS 11255 (Part 6) Titration Method
29	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Disulphide as CS2	IS 11255 (Part 04) Titration Method
30	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Chlorine as Cl2	SA EPA Method 03.04
31	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Hydrogen Fluoride as HF	IS 11255 (Part 5) Ion Electrode Method
32	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Hydrogen Sulphide as H2S	IS 11255 (Part 04) Titration Method
33	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxide of Nitrogen as NOx	IS 11255 (Part 07) Colorimetric Method
34	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxide of Nitrogen as NOx	IS 11255 (Part 7) Colorimetric Method
35	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particulate matter	IS 11255 (Part 01)
36	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide as SOx	IS 11255 (Part 02) Titration Method
37	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide as SOx	IS 11255 (Part 2) Titration Method

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38	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Trioxide as SO3 / Acid Mist	SA EPA Method 03.02
39	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Total Acidity	SA EPA Method 03.11
40	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Total Fluoride as F	IS 11255 (Part 5) Ion Electrode Method
41	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Ammonia as NH3	SOP No. UERL-D/AIR/SOP/0036 01 November 01
42	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Illumination	IS 6665
43	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Respirable Dust	NIOSH 600
44	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Total Dust	NIOSH 500
45	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	WorkPlace Noise	IS 9989
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Acidity	IS 3025 (Part 22) Titration Method
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Ammonical Nitrogen as (NH3-N)	IS 3025 (Part 34) Selective Electrode Method
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Aluminum	APHA, 23rd Ed., 3500-Al, B. Eriochrome Cyanine R Method
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Biochemical Oxygen Demand (3 Days, 27 °C)	IS 3025 (Part 44)
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Biochemical Oxygen Demand (5 Days, 20 °C)	APHA, 23rd Ed., 5210-BOD, B.
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Boron	IS 3025 (Part 57) Curcumin Method
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Dissolved Oxygen	IS 3025 (Part 38) Iodometric Method
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Free Residual chlorine	APHA, 23rd Ed., 4500-Cl, G. DPD Colorimetric Method
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Iron	APHA, 23rd Ed., 3500-Fe, B. Phenanthroline Method
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Manganese	APHA, 23rd Ed., 3500-Mn, B. Persulfate Method
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Mixed Liquor Suspended Solids (MLSS)	APHA, 23rd Ed., 2540- Solids, D.

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57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Oil & Grease	IS 3025 (Part 39) Liquid-liquid Partition, Gravimetric Method
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Alkalinity	IS 3025 (Part 23) Titration Method
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Ammonical Nitrogen as (NH3-N)	APHA, 23rd Ed., 4500-NH3, B-Preliminary Distillation Step, C-Titrimetric Method
60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Bicarbonate	IS 3025 (Part 51) By Calculation Method
61	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Bromide	APHA, 23rd Ed., 4500- Br^-, B. Phenol Red Colorimetric Method
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Calcium or Calcium Hardness as CaCO3	APHA, 23rd Ed., 3500 Ca -B. EDTA Titrimetric Method
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Carbonate	IS 3025 (Part-51) By Calculation Method
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Chemical Oxygen Demand	APHA, 23rd Ed., 5220-COD, B. Open Reflux Method
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Chemical Oxygen Demand	IS 3025 (Part 58) Open Reflux Method
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Chloride	IS 3025 (Part 32)
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Chromium (Hexavalent)	APHA, 23rd Ed., 3500-Cr, B. Colorimetric Method
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Colour	IS 3025 (Part 4) Visual Comparison Method
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Cyanide	APHA, 23rd Ed., 4500-CN^-, F. Cyanide ISE Method
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Electrical Conductivity	IS 3025 (Part 14) By Conductivity Meter
71	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Fluoride	APHA, 23rd Ed., 4500-F^-, C. ISE Method
72	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Fluoride	APHA, 23rd Ed., 4500-F^-, D. SPANDS Method
73	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Free Ammonia	IS 3025 (part 34) Selective Electrode Method
74	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Free Carbon dioxide	IS 3025 (Part-61) Titration Method

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75	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Free Residual Chlorine	IS 3025 (Part 26) Iodometric Method
76	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Iodide	APHA, 23rd Ed., 4500- I^-, B. Leuco Crystal violet Method
77	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Iodine	APHA, 23rd Ed., 4500- I, B, Leuco Crystal violet Method
78	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Magnesium as Mg	APHA, 23rd Ed., 3500-Mg, B. Calculation
79	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Mixed Liquor Volatile Suspended Solids (MLVSS)	APHA, 23rd Ed., 2540- Solids, E.
80	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Nitrate (as NO3)	APHA, 23rd Ed., 4500-$NO3^-$, ISE
81	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Nitrite (as NO2)	APHA, 23rd Ed., 4500-$NO2^-$, B, Colorimetric Method
82	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Odour	IS 3025 (Part 5) Qualitative Method
83	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	pH	IS 3025 (Part 11) Electrometric Method
84	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Phenolic Compounds as C6H5OH	APHA, 23rd Ed., 5530- Phenols, D. Direct Photometric Method
85	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Phosphate	APHA, 23rd Ed., 4500- P, D. Stannous Chloride Method
86	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Silica	APHA, 23rd Ed., 4500-SiO2, D. Hetero Poly Blue Method
87	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Sulphate	IS 3025 (Part 24) Turbidity Method
88	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Sulphide	APHA, 23rd Ed., 4500 –S^{2-}, F. Iodometric Method
89	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Sulphites as SO3	IS 3025 (Part 28) Titration Method
90	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Temperature	IS 3025 (Part 9)
91	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Total Dissolved Solids	IS 3025 (Part 16) Filtration/ Gravimetric Method
92	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Total Fixed Solids/ Inorganic Solids as FDS	IS 3025 (Part 18)
93	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Total Kjeldahl Nitrogen (TKN)	APHA, 23rd Ed., 4500 –Norg B. Macro-Kjeldahl Method

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94	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Total Solids	IS 3025 (Part 15) Gravimetric Method
95	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Total Suspended Solid	IS 3025 (Part 17) Filtration/ Gravimetric Method
96	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Total Volatile Solids / Organic Solids as VDS	IS 3025 (Part 18)
97	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Turbidity	IS 3025 (Part 10) Nephelometer Method
98	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Total Hardness	IS 3025 (Part 21) Titrimetric Method
99	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Copper	APHA, 23rd Ed., 3500-Cu, B. Neocuproine Method
100	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Total Nitrogen	IS 3025 (Part 34)
101	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Total Phosphorous	IS 3025 (Part 31) Stannous Chloride Method
102	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Raw & Treated Effluents & Sewage Water/Utility Water /Industrial Process Water)	Vanadium	APHA, 23rd Ed., 3500- V, B. Gallic Acid Method
103	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	% Moisture	UERL-D/SW/SOP/01 01 November 01
104	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	Chromium as Cr+6	EPA SW 846 Method 7196A
105	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	Flash Point	EPA SW 846 Method 1020A
106	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	Fluoride as F	UERL-D/SW/SOP/03 01 November 01
107	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	Loss of Ignition at 550°C	APHA, 23rd Ed, 2540 G
108	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	Nitrate Nitrogen	UERL-D/SW/SOP/12 01 November 01
109	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	Nitrite Nitrogen	UERL-D/SW/SOP/02 01 November 01
110	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	Phenol	UERL-D/SW/SOP/09 01 November 01
111	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	Ammonia	UERL-D/SW/SOP/07 01 November 01
112	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	pH	EPA SW 846 Method 9045C

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113	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	Phosphate	UERL-D/SW/SOP/06 01 November 01
114	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid /Slurry/Sludge/Solid/Semi-Solid)	Sulphide	UERL-D/SW/SOP/08 01 November 01
115	CHEMICAL- RESIDUES IN WATER	Trace metal elements	Boron	IS 3025 (Part 57) Curcumin Method
116	CHEMICAL- RESIDUES IN WATER	Trace metal elements	Chromium (Hexavalent)	APHA, 23rd Ed., 3500-Cr, B. Colorimetric Method
117	CHEMICAL- RESIDUES IN WATER	Trace metal elements	Copper	APHA, 23rd Ed., 3500-Cu, B. Neocuproine Method
118	CHEMICAL- RESIDUES IN WATER	Trace metal elements	Iron	APHA, 23rd Ed., 3500-Fe, B. Phenanthroline Method
119	CHEMICAL- RESIDUES IN WATER	Trace metal elements	Manganese	APHA, 23rd Ed., 3500-Mn, B. Persulfate Method
120	CHEMICAL- RESIDUES IN WATER	Trace metal elements	Vanadium	APHA, 23rd Ed., 3500- V, B. Gallic Acid Method
121	CHEMICAL- WATER	Drinking Water	Acidity	IS 3025 (Part 22) Titration Method
122	CHEMICAL- WATER	Drinking Water	Ammonia	IS 3025 (part 34)
123	CHEMICAL- WATER	Drinking Water	Calcium or Calcium Hardness as CaCO3	IS 3025 (Part 40) EDTA Titrimetric Method
124	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand	IS 3025 (Part 58) Open Reflux Method
125	CHEMICAL- WATER	Drinking Water	Chloramines as Cl2	APHA, 23rd Ed., 4500-Cl, G. DPD Colorimetric Method
126	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part 32)
127	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 (Part 4) Visual Comparison Method
128	CHEMICAL- WATER	Drinking Water	Cyanide	APHA, 23rd Ed., 4500-CN^-, F. Cyanide ISE Method
129	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	IS 3025 (Part 38) Membrane Electrode Method
130	CHEMICAL- WATER	Drinking Water	Electrical Conductivity	IS 3025 (Part 14) By Conductivity Meter
131	CHEMICAL- WATER	Drinking Water	Fluoride	APHA, 23rd Ed., 4500-F^-, C. ISE Method
132	CHEMICAL- WATER	Drinking Water	Fluoride	APHA, 23rd Ed., 4500-F^-, D. SPANDS Method

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133	CHEMICAL- WATER	Drinking Water	Free Residual chlorine	APHA, 23rd Ed., 4500-Cl, G. DPD Colorimetric Method
134	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine	IS 3025 (Part 26) Iodometric Method
135	CHEMICAL- WATER	Drinking Water	M- Alkalinity	IS 3025 (Part 23) Titration Method
136	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	APHA, 23rd Ed., 3500-Mg, B. Calculation Method
137	CHEMICAL- WATER	Drinking Water	Nitrate (asNO3)	APHA, 23rd Ed., 4500-NO_3^-, B. Ultraviolet spectrophotometric Screening method
138	CHEMICAL- WATER	Drinking Water	Nitrate (asNO3)	APHA, 23rd Ed., 4500-NO_3^-, D. Nitrate Electrode Method
139	CHEMICAL- WATER	Drinking Water	Nitrite (as NO2)	APHA, 23rd Ed., 4500-NO_2^-, B. Colorimetric Method
140	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5) Qualitative Method
141	CHEMICAL- WATER	Drinking Water	Oil & Grease	IS 3025 (Part 39) Liquid-Liquid Partition, Gravimetric Method
142	CHEMICAL- WATER	Drinking Water	P- Alkalinity	IS 3025 (Part 23) Titration Method
143	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11) Electrometric Method
144	CHEMICAL- WATER	Drinking Water	Phenolic Compounds as C_6H_5OH	APHA, 23rd Ed., 5530-Phenols, C. Chloroform Extraction Method
145	CHEMICAL- WATER	Drinking Water	Silica	IS 3025 (Part 35) Hetero Poly Blue Method
146	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (Part 24) Turbidity Method
147	CHEMICAL- WATER	Drinking Water	Sulphide	APHA, 23rd Ed., 4500 –S^{2-}, F. Iodometric Method
148	CHEMICAL- WATER	Drinking Water	Sulphide	IS 3025 (Part 29) Methylene Blue Method
149	CHEMICAL- WATER	Drinking Water	Temperature	IS 3025 (Part 9)
150	CHEMICAL- WATER	Drinking Water	Total Alkalinity	IS 3025 (Part 23) Titration Method

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151	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16) Filtration/Gravimetric Method
152	CHEMICAL- WATER	Drinking Water	Total Hardness	IS 3025 (Part 21) Titrimetric Method
153	CHEMICAL- WATER	Drinking Water	Total Kjeldahl Nitrogen (TKN)	APHA, 23rd Ed., 4500 –Norg, B. Macro Kjeldahl Method
154	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (Part 17) Filtration/Gravimetric Method
155	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10) Nephelometer Method
156	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Ammonical Nitrogen	APHA, 23rd Ed., 4500-NH3. B-Preliminary Distillation Step, C-Titrimetric Method
157	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Ammonical Nitrogen	IS 3025 (Part 34) Selective Electrode Method
158	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Bicarbonate	IS 3025 (Part-51) Calculation Method
159	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Biochemical Oxygen Demand (3 Days, 27 °C)	IS 3025 (Part 44)
160	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Biochemical Oxygen Demand (5 Days, 20 °C)	APHA, 23rd Ed., 5210 BOD, B.
161	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Bromide	APHA, 23rd Ed., 4500- Br^-, B. Phenol Red Colorimetric Method
162	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Calcium or Calcium Hardness as CaCO3	IS 3025 (Part 40) EDTA Titrimetric Method
163	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Carbonate	IS 3025 (Part-51) Calculation Method
164	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Chemical Oxygen Demand	IS 3025 (Part 58) Open Reflux Method
165	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Chloride	IS 3025 (Part 32)
166	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Colour	IS 3025 (Part 4) Visual Comparison Method
167	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Cyanide	APHA, 23rd Ed., 4500-CN^-, F. Cyanide ISE Method
168	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Dissolved Oxygen	IS 3025 (Part 38) Iodometric Method

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169	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Electrical Conductivity	IS 3025 (Part 14) By Conductivity Meter
170	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Fluoride	APHA, 23rd Ed., 4500-F¯ D. SPAND Method
171	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Fluoride	APHA, 23rd Ed., 4500-F¯ C. ISE Method
172	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Free Ammonia	IS 3025 (Part 34) Selective Electrode Method
173	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Free Carbon dioxide	IS 3025 (Part 61) Titration Method
174	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Free Residual chlorine	APHA, 23rd Ed., 4500-Cl, G. DPD Colorimetric Method
175	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Free Residual chlorine	IS 3025 (Part 26) Iodometric Method
176	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Iodide	APHA, 23rd Ed., 4500- I¯, B. Leuco Crystal violet Method
177	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Iodine	APHA, 23rd Ed., 4500- I, B. Leuco Crystal violet Method
178	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	M- Alkalinity	IS 3025 (Part 23) Titration Method
179	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Magnesium as Mg	APHA, 23rd Ed., 3500-Mg, B. Calculation Method
180	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Nitrate (as NO3)	APHA, 23rd Ed., 4500-NO3¯, D. Nitrate Electrode Method
181	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Nitrate as (NO3)	APHA, 23rd Ed., 4500-NO3¯, B. Ultraviolet spectrophotometric Screening method
182	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Nitrite (as NO2)	APHA, 23rd Ed., 4500-NO2¯, B. Colorimetric Method
183	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Odour	IS 3025 (Part 5) Qualitative Method
184	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Oil & Grease	IS 3025 (Part 39) Liquid-Liquid Partition, Gravimetric Method
185	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	P- Alkalinity	IS 3025 (Part 23) Titration Method
186	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	pH	IS 3025 (Part 11) Electrometric Method

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187	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Phenolic Compounds as C6H5OH	APHA, 23rd Ed., 5530-Phenols, D. Direct Photometric Method
188	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Phosphate	APHA, 23rd Ed., 4500- P, D. Stannous Chloride Method
189	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Silica	APHA, 23rd Ed., 4500-SiO2, D. Hetero Poly Blue Method
190	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Sulphate	IS 3025 (Part 24) Turbidity Method
191	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Sulphide	APHA, 23rd Ed., 4500-S^{2-}, F. Iodometric Method
192	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Sulphide	IS 3025 (Part 29) Methylene Blue Method
193	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Sulphites as SO3	IS 3025 (Part 28) Titration Method
194	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Temperature	IS 3025 (Part 9)
195	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Total Alkalinity	IS 3025 (Part 23) Titration Method
196	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Total Dissolved Solids	IS 3025 (Part 16) Filtration/ Gravimetric Method
197	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Total Hardness	IS 3025 (Part 21) Titrimetric Method
198	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Total Kjeldahl Nitrogen (TKN)	APHA, 23rd Ed., 4500-Norg, B. Macro-Kjeldahl Method
199	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Total Solids	IS 3025 (Part 15) Gravimetric Method
200	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Total Suspended Solids	IS 3025 (Part 17) Filtration/ Gravimetric Method
201	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Turbidity	IS 3025 (Part 10) Nephelometer Method
202	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Acidity	IS 3025 (Part 22) Titration Method
203	CHEMICAL- WATER	Ground water, Surface water, Potable water, Domestic Water	Dissolved Oxygen	IS 3025 (Part 38) Membrane Electrode Method
204	CHEMICAL- WATER	Reagent Grade Water	Colour retention of KMnO4 at 27 °C	Annexure-A of IS 1070 Reagent grade Water
205	CHEMICAL- WATER	Reagent Grade Water	pH at @ 25 °C	IS 3025 (Part 11) Electrometric Method

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206	CHEMICAL- WATER	Reagent Grade Water	Silica as SiO2	APHA, 23rd Ed., 4500-SiO2, D. Heteropoly Blue Method
207	CHEMICAL- WATER	Reagent Grade Water	Specific Conductivity @ 25 °C	IS 3025 (Part 14) By Conductivity Meter
208	CHEMICAL- WATER	Reagent Grade Water	Total Solids or Non-Volatile residue at 105 °C	IS 3025 (Part 15) Gravimetric Method
209	CHEMICAL- WATER	Water for construction purpose	Chlorides as Cl	IS 3025 (Part 32)
210	CHEMICAL- WATER	Water for construction purpose	Inorganic matter	IS 3025 (Part 18)
211	CHEMICAL- WATER	Water for construction purpose	Neutralize 100 ml sample of water with 0.02 N H2SO4	IS 3025 (Part 23)
212	CHEMICAL- WATER	Water for construction purpose	Neutralize 100 ml sample of water with 0.02 N NaOH	IS 3025 (Part 22) Titration Method
213	CHEMICAL- WATER	Water for construction purpose	Organic matter	IS 3025 (Part 18)
214	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 (Part 11) Electrometric Method
215	CHEMICAL- WATER	Water for construction purpose	Sulphates (as SO3)	IS 3025 (Part 24) Turbidity Method
216	CHEMICAL- WATER	Water for construction purpose	Suspended Matter	IS 3025 (Part 17) Filtration/ Gravimetric Method

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Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	D.G. Set Stack Emission	Carbon Monoxide as CO	CPCB Guidelines on Methodologies for Source Emission Monitoring; 2012
2	CHEMICAL- ATMOSPHERIC POLLUTION	D.G. Set Stack Emission	NOx + HC	CPCB Guidelines on Methodologies for Source Emission Monitoring:2012
3	CHEMICAL- ATMOSPHERIC POLLUTION	Meteorological Parameters	Pressure (HPA)	SOP No. UERL-D/AIR/SOP/033 01 November 01
4	CHEMICAL- ATMOSPHERIC POLLUTION	Meteorological Parameters	Rainfall(mm)	SOP No. UERL-D/AIR/SOP/033 01 November 01
5	CHEMICAL- ATMOSPHERIC POLLUTION	Meteorological Parameters	Relative Humidity (%)	SOP No. UERL-D/AIR/SOP/033 01 November 01
6	CHEMICAL- ATMOSPHERIC POLLUTION	Meteorological Parameters	Solar Radiation (W/m2)	SOP No. UERL-D/AIR/SOP/033 01 November 01
7	CHEMICAL- ATMOSPHERIC POLLUTION	Meteorological Parameters	Temperature (C°)	SOP No. UERL-D/AIR/SOP/033 01 November 01
8	CHEMICAL- ATMOSPHERIC POLLUTION	Meteorological Parameters	Wind Direction(°)	SOP No. UERL-D/AIR/SOP/033 01 November 01
9	CHEMICAL- ATMOSPHERIC POLLUTION	Meteorological Parameters	Wind Speed (m/s)	SOP No. UERL-D/AIR/SOP/033 01 November 01
10	CHEMICAL- ATMOSPHERIC POLLUTION	Noise	Ambient Noise Monitoring	CPCB protocol/guidelines" is mentioned in the scope. CPCB Protocol for Ambient Level Noise Monitoring, July 2015
11	CHEMICAL- ATMOSPHERIC POLLUTION	Noise	Ambient Noise Monitoring	IS 9989
12	CHEMICAL- ATMOSPHERIC POLLUTION	Noise	Source Noise Monitoring	CPCB protocol/guidelines" is mentioned in the scope. CPCB Protocol for Ambient Level Noise Monitoring, July 2015
13	CHEMICAL- ATMOSPHERIC POLLUTION	Noise	Source Noise Monitoring	IS 4758
14	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Moisture Content	IS 11255 (Part 3) Calculation Method
15	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent Emissions	Water Vapor	IS 11255 (Part 3) Calculation Method
16	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon dioxide as CO2	CPCB Guidelines on Methodologies for Source Emission Monitoring: 2012

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17	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Monoxide as CO	CPCB Guidelines on Methodologies for Source Emission Monitoring: 2012
18	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Hydro carbon as HC	CPCB Guidelines on Methodologies for Source Emission Monitoring: 2012
19	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Moisture Content	IS 11255 (Part 3) Calculation Method
20	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Molecular Weight of Stack gas on dry basis	IS 11255 (Part 3) Calculation Method
21	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Molecular Weight of Stack gas on wet basis	IS 11255 (Part 3) Calculation Method
22	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Nitrogen as N2	IS 11255 (Part 3) Calculation Method
23	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Nitrogen Oxide as NO	CPCB Guidelines on Methodologies for Source Emission Monitoring: 2012
24	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxide of Nitrogen as NOx	CPCB Guidelines on Methodologies for Source Emission Monitoring: 2012
25	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxygen as O2	CPCB Guidelines on Methodologies for Source Emission Monitoring: 2012
26	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Stack Velocity & Volume Flow Rate	SOP No.UERL-D/AIR/SOP/027 01 January 01
27	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide as SOx	CPCB Guidelines on Methodologies for Source Emission Monitoring: 2012
28	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Water Vapor	IS 11255 (Part 3) By Calculation Method