National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNIVERSAL ENVIRO ASSOCIATES, SY.NO 178, RAMAKRISHNA NAGAR, CHENIGACHERLA, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 20/10/2022 to 19/10/2024 **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 Quality (AAQ)	Ammonia (NH3)	CPCB Manual (NAAQMS/36/2012-13) Blue Indophenol Method
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality (AAQ)	Oxides of Nitrogen (NOx)	IS: 5182 (Part-6) Jacob & Hochheiser Method
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality (AAQ)	Particulate Matter Less than 2.5 µm (or) PM 2.5	CPCB Manual (NAAQMS/36/2012-13) Cyclonic flow technique
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality (AAQ)	Particulate Size less than 10 µm (or) PM10	IS: 5182 (Part-23) Gravimetric method
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality (AAQ)	Sulphur Dioxide (SO2)	IS: 5182 (Part-2) Modified West & Geake Method
6	CHEMICAL- ATMOSPHERIC POLLUTION	Noise Level	Noise	UEA/LAB/STP-105 Based on IS:9989
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter (PM)	IS:11255 (Part - 1)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide (SO2)	IS:11255 (Part - 2)
9	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Calcium as Ca	STP (Standard Test Procedure): UEA/LAB/STP/060, Issue/Revision No.01/01, Issue Date :10.01.2019
10	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Electrical Conductivity (EC)	IS:14767
11	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Magnesium as Mg	STP (Standard Test Procedure): UEA/LAB/STP/061, Issue/Revision No.01/01, Issue Date :10.01.2019
12	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Moisture	IS:2720 (Part-2)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH	IS:2720 Part: 26
14	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Soluble Chlorides as Cl-	STP (Standard Test Procedure): UEA/LAB/STP/058, Issue/Revision No.01/01, Issue Date :10.01.2019 based on (ICARDA) Page No. 196 & 197
15	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Soluble Sulphates as SO42-	IS:2720 (Part-27)

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16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Alkalinity as CaCO3	APHA 23rd Edition 2320 B (Titration Method)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Biochemical Oxygen Demand (BOD) (3 Days at 27oC)	IS:3025 (Part - 44) (Chemical Method)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Boron as B	APHA 23rd Edition 4500-B B (Curcumin Method)
19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Calcium as Ca	APHA 23rd Edition 3500 Ca B (EDTA Ttrimetric Method)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Chemical Oxygen Demand (COD)	APHA 23rd Edition 5220 B (Open Reflux Method)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Chlorides as Cl-	APHA 23rd Edition 4500 Cl- B
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Cobalt as CO	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Copper as Cu	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Cyanide as CN-	APHA 23rd Edition 4500 CN- E
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Dissolved Oxygen (DO)	APHA 23rd Edition 4500 O B (Iodometric Methods)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Fixed Solids	APHA 23rd Edition 2540 E (Fixed Solids ignited at 550 oC)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Flouride as F-	APHA 23rd Edition 4500 F- D (Spands Method)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Hexavalent Chromium as Cr+6	APHA 23rd Edition 3500 Cr B (Colorimetric Method)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Iron as Fe	APHA 23rd Edition 3500 Fe B (Orthophenanthroline Method)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Lead as Pb	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Magnesium as Mg	APHA 23rd Edition 3500 Mg B (Calculation Method)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Nickel as Ni	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Nitrate Nitrogen as N	IS:3025 (Part-34) (3,1B Page 10,11) Chromotropic Acid Method

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34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Nitrite Nitrogen as N	APHA 23rd Edition 4500 NO2- B (Colorimetric Method)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Nitrogen (Ammonia) as N	APHA 23rd Edition 4500 NH3 B, C (Pre Distillation Titrimetric Mehod)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Nitrogen (Organic) as N	APHA 23rd Edition 4500 N (org) B (Macro Kjeldhl Method)
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Oil & Grease	APHA 23rd Edition 5520 B (Liquid - Liquid partition Gravimetric Method)
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	pH	APHA 23rd Edition 4500 H+ B (Electrometric Method)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Phenols as Phenolic Compounds	APHA 23rd Edition 5530 D (Direct Photometric Method)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Phosphorous as P	APHA 23rd Edition 4500 P C (Vanadomolybdophophoric Acid Method)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Potassium as K	APHA 23rd Edition 3500 K B (Flame Emission Photometric Method)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Residual Chlorine as Cl-	APHA 23rd Edition 4500 Cl- B (Iodometric Method)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Silica as SiO2	APHA 23rd Edition 4500 SiO2 C (Molybdosilicate amethod)
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Sodium as Na	APHA 23rd Edition 3500 Nas B (Flame Emission Photometric Method)
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Sulphates as SO4-2	APHA 23rd Edition 4500 SO4-2 D
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Temperature	APHA 23rd Edition 2500 B (Laboratory & Field Method)
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Total Chromium as Cr	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Total Dissolved Solids (TDS)	APHA 23rd Edition 2540 C (TDS Dried at 180oC)
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Total Hardness as CaCO3	APHA 23rd Edition 2340 C (EDTA Titrimetric Method)
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Total Solids (TS)	APHA 23rd Edition 2540 B (TS Dried at 103-105oC)

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51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Total Suspended Solids (TSS)	APHA 23rd Edition 2540 D (TSS Dried at 103-105oC)
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Volatile Solids	APHA 23rd Edition 2540 E
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Liquid Effluents, STP water, ETP water, Treated Effluents)	Zinc as Zn	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
54	CHEMICAL- RESIDUES IN WATER	Bore Water, Surface Water, Ground Water	Boron as B	APHA 23rd Edition 4500 b- B (Cucumin Method)
55	CHEMICAL- RESIDUES IN WATER	Bore Water, Surface Water, Ground Water	Cobalt as CO	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
56	CHEMICAL- RESIDUES IN WATER	Bore Water, Surface Water, Ground Water	Copper as Cu	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
57	CHEMICAL- RESIDUES IN WATER	Bore Water, Surface Water, Ground Water	Lead as Pb	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
58	CHEMICAL- RESIDUES IN WATER	Bore Water, Surface Water, Ground Water	Nickel as Ni	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
59	CHEMICAL- RESIDUES IN WATER	Bore Water, Surface Water, Ground Water	Total Chromium as Cr	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
60	CHEMICAL- RESIDUES IN WATER	Bore Water, Surface Water, Ground Water	Zinc as Zn	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
61	CHEMICAL- RESIDUES IN WATER	Drinking Water	Boron as B	APHA 23rd Standard
62	CHEMICAL- RESIDUES IN WATER	Drinking Water	Cobalt as CO	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
63	CHEMICAL- RESIDUES IN WATER	Drinking Water	Copper as Cu	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
64	CHEMICAL- RESIDUES IN WATER	Drinking Water	Lead as Pb	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
65	CHEMICAL- RESIDUES IN WATER	Drinking Water	Nickel as Ni	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
66	CHEMICAL- RESIDUES IN WATER	Drinking Water	Total Chromium as Cr	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
67	CHEMICAL- RESIDUES IN WATER	Drinking Water	Zinc as Zn	APHA 23rd Edition 3111 B (Direct Air Acetylene Method)
68	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Acidity as CaCO3	APHA 23rd Edition 2310 B (Titration Method)
69	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Alkalinity as CaCO3	APHA 23rd Edition 2320 B (Titration Method)

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70	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Aluminum as Al	APHA 23rd Edition 2017: 3500 Al B (Eriochrome Cyanine R)
71	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Biochemical Oxygen Demand (BOD) (3 Days at 27 oC)	IS:3025 (Part-44)
72	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Calcium as Ca	APHA 23rd Edition 3500 Ca B (EDTA Titrimetric Method)
73	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Chemical Oxygen Demand (COD)	APHA 23rd Edition 5220 B (Open Refluxe Method)
74	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Chlorides as Cl-	APHA 23rd Edition 4500 Cl- B (Argentometric Method)
75	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Colour	APHA 23rd Edition 2120 B (Visuval Comparision Method
76	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Conductivity (EC)	APHA 23rd Edition 2510 B (Laboratory Method)
77	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Cyanide as CN-	APHA 23rd Edition 4500 CN- C, E (Colorimetric Method)
78	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Dissolved Oxygen (DO)	Bore Water, Surface Water, Ground Water 4500 O B (Iodometric Method)
79	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Fluorides as F-	APHA 23rd Edition 4500 F- D (Spands Method)
80	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Hexavalent Chromium as Cr+6	APHA 23rd Edition 3500 Cr B (Colorimetric Method)
81	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Iron as Fe	APHA 23rd Edition 3500 Fe B(Ortho Phenanthroline Method)
82	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Magnesium as Mg	Bore Water, Surface Water, Ground Water 3500 Mg B (Calculation Method)
83	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Nitrate Nitrogen as N	APHA 23rd Edition 4500 NO3- B (Ultra Voilet Spectrophotometric Screening Method)
84	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Nitrite Nitrogen as N	APHA 23rd Edition 4500 NO2 - B (Colorimetric Method)
85	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Oil & Grease	APHA 23rd Edition 5520 B (Liquid - Liquid Partition Gravimetric Method)
86	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	pH	APHA 23rd Edition 4500 H+ B (Electrometric Method)

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87	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Phosphorous as P	APHA 23rd Edition 4500 P C (Vanadomolybdophosphoric Acid Colorimetric Method)
88	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Potassium as K	APHA 23rd Edition 3500 K B (Flame Emission Photometric Method)
89	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Silica as SiO2	APHA 23rd Edition 4500 SiO2 C (Molybdosilicate Method)
90	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Sodium as Na	APHA 23rd Edition 3500 Na B (Flame Emission Photometric Method)
91	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Sulphates as SO42-	APHA 23rd Edition 4500 SO42- E (Turbid metric Method)
92	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Temperature	APHA 23rd Edition 2550 B (Laboratory and Field Methods)
93	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Total Dissolved Solids (TDS)	APHA 23rd Edition 2540 C (TDS Dried at 180 oC)
94	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Total Hardness as CaCO3	Bore Water, Surface Water, Ground Water 2340 C (EDTA Titrimetric Method)
95	CHEMICAL- WATER	Bore Water, Surface Water, Ground Water	Turbidity	APHA 23rd Edition 2130 B (Nephelometric Method)
96	CHEMICAL- WATER	Drinking Water	Acidity as CaCO3	APHA 23rd Edition 2310 B (Titration Method)
97	CHEMICAL- WATER	Drinking Water	Alkalinity as CaCO3	APHA 23rd Edition 2320 B (Titration Method)
98	CHEMICAL- WATER	Drinking Water	Aluminum as Al	APHA 23rd Edition 3500 Al - A (Erichrome cyanine Method)
99	CHEMICAL- WATER	Drinking Water	Biochemical Oxygen Demand (BOD) (3 Days at 27 oC)	IS: 3025 (Part-44)
100	CHEMICAL- WATER	Drinking Water	Calcium as Ca	APHA 23rd Edition 3500 Ca B (EDTA Titrimetric Method)
101	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand (COD)	APHA 23rd Edition 5220 B (Open Reflux Method)
102	CHEMICAL- WATER	Drinking Water	Chlorides as Cl-	APHA 23rd Edition 4500 Cl- B (By Argentometric Method)
103	CHEMICAL- WATER	Drinking Water	Colour	APHA 23rd Edition 2120 B (Visuval Comparison Method)

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104	CHEMICAL- WATER	Drinking Water	Cyanide as CN-	APHA 23rd Edition 4500 CN- C E (Colorimetric Method)
105	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen (DO)	APHA 23rd Edition 4500 O b (Iodometric Method)
106	CHEMICAL- WATER	Drinking Water	Electrical Conductivity (EC)	APHA 23rd Edition 2510 B (Laboratory Method)
107	CHEMICAL- WATER	Drinking Water	Fluorides as F-	APHA 23rd Edition 4500 F- D (Spands Method)
108	CHEMICAL- WATER	Drinking Water	Hexavalent Chromium as Cr+6	APHA 23rd Edition 3500 Cr B (Colorimetric Method)
109	CHEMICAL- WATER	Drinking Water	Iron as Fe	APHA 23rd Edition 3500 Fe B (Ortho Phenanthroline Method)
110	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	APHA 23rd Edition 3500 Mg B (Calculation Method)
111	CHEMICAL- WATER	Drinking water	Nitrate Nitrogen as N	APHA 23rd Edition 4500 NO3- B (Ultraviolet Spectrophotometric screening method)
112	CHEMICAL- WATER	Drinking Water	Nitrite Nitrogen as N	APHA 23rd Edition 4500 NO2- B (Colorimetric Method)
113	CHEMICAL- WATER	Drinking Water	Oil & Grease	APHA 23rd Edition (Liquid-Liquid Partition Gravimetric Method)
114	CHEMICAL- WATER	Drinking Water	pH	APHA 23rd Edition 4500 H+ B (Electrometric method)
115	CHEMICAL- WATER	Drinking Water	Phosphrous as P	APHA 23rd Edition 4500 P C (Vanadomolybdophosphoric Acid Colorimetric Method)
116	CHEMICAL- WATER	Drinking Water	Potassium as K	APHA 23rd Edition 3500 K B (Flame Emission Photometric Method)
117	CHEMICAL- WATER	Drinking Water	Silica as SiO2	APHA 23rd Edition 4500 SiO2 C (*Molybdosilicate Method)
118	CHEMICAL- WATER	Drinking Water	Sodium as Na	APHA 23rd Edition 3500 Na B (Flame Emission Photometric Method)
119	CHEMICAL- WATER	Drinking Water	Sulphates as SO42-	APHA 23rd Edition 4500 SO42- E (Turbidmetric Method)
120	CHEMICAL- WATER	Drinking Water	Temperature	APHA 23rd Edition 2550 B (Laboratory and Field methods)

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121	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids (TDS)	APHA 23rd Edition 2540 C (TDS Dried at 180 oC
122	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C (EDTA Titrimetric Method)

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Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Noise Level	Noise	UEA/LAB/STP-105 Based on IS:9989