National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : EN-PROTECT ENGINEERS - LABORATORY DIVISION, 4/1, GHANDHI NAGAR, UDAYAMPALAYAM, COIMBATORE, TAMIL NADU, 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 (NH3)	EPE/SOP/AA/05 (Issue No/Date : 01/ 04.04.2022 based on method of Air Sampling & Analysis 3rd Edn.801. James P. Lodge)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Carbon Monoxide (CO)	IS 5182 PART 10 NDIR
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Oxides of Nitrogen (NO2)	IS 5182 PART 6
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone (O3)	IS 5182 PART 9
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (PM2.5)	EPE/SOP/AA/02 (Issue No/Date : 01/04.04.2022 based on CPCB Guidelines for Manual Sampling & Analysis - May 2011)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Respirable Particulate Matter (PM10 or Less than 10 µm)	IS 5182 PART 23
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO2)	IS 5182 PART 2
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Ambient Noise Level	IS 9989
9	CHEMICAL- ATMOSPHERIC POLLUTION	Source Noise	Source Noise Level (SPL)	IS 9989
10	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Dioxide (CO2)	IS 13270
11	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Monoxide (CO)	IS 13270
12	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxides of Nitrogen (NO2)	IS 11255 PART 7
13	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxygen (O2)	IS 13270
14	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter	IS 11255 PART 1
15	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide (SO2)	IS 11255 PART 2
16	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Carbon Monoxide (CO)	NIOSH - 6604

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17	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Illumination	IS 6665
18	CHEMICAL- ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Ozone (O3)	EPE/SOP/IA/05 (Issue No./Date :01/ 04.04.2022 based on method of Air Sampling & Analysis 3rd Edn.819. James P.Lodge)
19	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Ammoniacal Nitrogen as NH3-N	IS 3025 PART 34 (Titrimetric Method)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Biochemical Oxygen Demand (BOD)-3 Days @ 27°C	IS 3025 PART 44
21	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Boron as B	IS 3025 PART 57 (Curcumin Method)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Calcium as Ca	IS 3025 PART 40 (EDTA Titrimetric Method)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Calcium Hardness as CaCO3	IS 3025 PART 40 (EDTA Titrimetric Method)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Chemical Oxygen Demand (COD)	IS 3025 PART 58 (Open Reflux Method)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Chlorides as Cl^-	IS 3025 PART 32 (Argentometric Method)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Colour	APHA 23rd Edn., 2120 C
27	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Dissolved Oxygen (DO)	IS 3025 PART 38 (Winkler Method)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Dissolved Phosporus as PO4	APHA 23rd Edn 4500 D (Stannous Chloride Method)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Electrical Conductivity @ 25°C	IS 3025 PART 14 (Conductivity Method)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Fixed Solids	IS 3025 PART 18
31	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Free Residual Chlorine as Cl2	IS 3025 PART 26 (Iodometric Method)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Magnesium as Mg	APHA 23rd Edn., 3500 (Mg) B (By Calculation)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Magnesium Hardness as CaCO3	APHA 23rd Edn.3500 (Mg) B (By Calculation)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Nitrate Nitrogen as NO3-N	IS 3025 PART 34 (Devarda's Alloy Method)

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35	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Nitrite Nitrogen as NO2-N	IS 3025 PART 34 (NEDA Method)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Odour	IS 3025 PART 5
37	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Oil and Grease	IS 3025 PART 39 (Partition Gravimetric Method)
38	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	pH @ 25°C	IS 3025 PART 11 (Electrometric Method)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Phenolphthalein Alkalinity as CaCO3	IS 3025 PART 23 (Indicator Method)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Sulphate as SO4	IS 3025 PART 24 (Gravimetric Method)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Sulphide as S2-	APHA 23rd Edn.4500 S2- (Iodometric Method)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Sulphite as SO3 2-	APHA 23rd Edn.4500 SO3 2- (Iodometric Method)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Temperature	IS 3025 PART 9
44	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Acidity as CaCO3	IS 3025 PART 22 (Indicator Method)
45	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Alkalinity as CaCO3	IS 3025 PART 23 (Indicator Method)
46	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Dissolved Solids (TDS)	IS 3025 PART 16
47	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Hardness as CaCO3	IS 3025 PART 21 (EDTA Titrimetric Method)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Kjeldahl Nitrogen	IS 3025 PART 34 (Macro Kjeldahl Method)
49	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Phosporus as P	APHA 4500 D (Stannous Chloride Method)
50	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Solids	IS 3025 PART 15
51	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Total Suspended Solids (TSS)	IS 3025 PART 17
52	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Turbidity	IS 3025 PART 10
53	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Volatile Solids	IS 3025 PART 18

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54	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Available Phosphorus as P	Method of Analysis for Soils Arid and Semi-Arid Regions; Food and Agriculture Organisation, United Nations, Rome
55	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Bicarbonate as HCO3	Method of Analysis for Soils Arid and Semi-Arid Regions; Food and Agriculture Organisation, United Nations, Rome
56	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Calcium Carbonate as CaCO3	IS 2720 PART 23
57	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Carbonate as CO3	Method of Analysis for Soils Arid and Semi-Arid Regions; Food and Agriculture Organisation, United Nations, Rome
58	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Chlorides as Cl^-	Method of Analysis for Soils Arid and Semi-Arid Regions; Food and Agriculture Organisation, United Nations, Rome
59	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Organic Matter	IS 2720 PART 22 (Method I)
60	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Soluble Calcium as Ca	Method of Analysis for Soils Arid and Semi-Arid Regions; Food and Agriculture Organisation, United Nations, Rome
61	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Soluble Magnesium as Mg	Method of Analysis for Soils Arid and Semi-Arid Regions; Food and Agriculture Organisation, United Nations, Rome
62	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Total Nitrogen	IS 14684
63	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Total Soluble Solid	IS 2720 PART 21 (Gravimetric Method)
64	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Total Soluble Sulphate as Na2SO4	Method of Analysis for Soils Arid and Semi-Arid Regions; Food and Agriculture Organisation, United Nations, Rome

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65	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	pH @ 25°C	IS 2720 PART 26 (Electrometric Method)
66	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Specific Electrical Conductivity @ 25°C	IS 14767
67	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Water Content	IS 2720 PART 2 (Oven Drying Method)
68	CHEMICAL- WATER	Drinking Water	Boron as B	IS 3025 PART 57 (Curcumin Method)
69	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 PART 40 (EDTA Titrimetric Method)
70	CHEMICAL- WATER	Drinking Water	Chlorides as Cl^-	IS 3025 PART 32 (Argentometric Method)
71	CHEMICAL- WATER	Drinking Water	Colour	APHA 23rd Edn., 2120 C
72	CHEMICAL- WATER	Drinking Water	Electrical Conductivity @ 25°C	IS 3025 PART 14 (Conductivity)
73	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine as Cl2	IS 3025 PART 26 (Iodometric Method)
74	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	APHA 23rd Edn.3500-Mg B (By Calculation)
75	CHEMICAL- WATER	Drinking Water	Nitrite Nitrogen as NO2-N	IS 3025 PART 34 (NEDA Method)
76	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 PART 5
77	CHEMICAL- WATER	Drinking Water	pH @ 25°C	IS 3025 PART 11 (Electrometric Method)
78	CHEMICAL- WATER	Drinking Water	Sulphide as S-	APHA 23rd Edn.4500-S2 F (Iodometric Method)
79	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	IS 3025 PART 23 (Indicator Method)
80	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids (TDS)	IS 3025 PART 16
81	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	IS 3025 PART 21 (EDTA Titrimetric Method)
82	CHEMICAL- WATER	Drinking Water	Total Suspended Solids (TSS)	IS 3025 PART 17
83	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 PART 10
84	CHEMICAL- WATER	Ground Water / Surface Water	Magnesium as Mg	APHA 23rd Edn.3500 B (Mg) (By Calculation)
85	CHEMICAL- WATER	Ground Water/Surface Water	Ammoniacal Nitrogen as NH3-N	IS 3025 PART 34 Titrimetric Method

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86	CHEMICAL- WATER	Ground Water/Surface Water	Bio-Chemical Oxygen Demand (BOD)- 3 Days @ 27°C	IS 3025 PART 44
87	CHEMICAL- WATER	Ground Water/Surface Water	Boron as B	IS 3025 PART 57 (Curcumin Method)
88	CHEMICAL- WATER	Ground Water/Surface Water	Calcium as Ca	IS 3025 PART 40 (EDTA Titrimetric Method)
89	CHEMICAL- WATER	Ground Water/Surface Water	Calcium Hardness as CaCO3	IS 3025 PART 40 (EDTA Titrimetric Method)
90	CHEMICAL- WATER	Ground Water/Surface Water	Chemical Oxygen Demand(COD)	IS 3025 PART 58 (Open Reflux Method)
91	CHEMICAL- WATER	Ground Water/Surface Water	Chlorides as Cl^-	IS 3025 PART 32 (Argentometric Method)
92	CHEMICAL- WATER	Ground Water/Surface Water	Colour	APHA 23rd Edn., 2120 C
93	CHEMICAL- WATER	Ground Water/Surface Water	Dissolved Oxygen (DO)	IS 3025 PART 38 (Winkler Method)
94	CHEMICAL- WATER	Ground Water/Surface Water	Dissolved Phosphorus as PO4	APHA 23rd Edn 4500 P (Stannous Chloride Method)
95	CHEMICAL- WATER	Ground Water/Surface Water	Electrical Conductivity at 25°C	IS 3025 PART 14 (Conductivity)
96	CHEMICAL- WATER	Ground Water/Surface Water	Fixed Solids	IS 3025 PART 18
97	CHEMICAL- WATER	Ground Water/Surface Water	Magnesium Hardness as CaCO3	APHA 23rd Edn.3500 B (Mg) (By Calculation Method)
98	CHEMICAL- WATER	Ground Water/Surface Water	Nitrite Nitrogen as NO2-N	IS 3025 PART 34 (NEDA Method)
99	CHEMICAL- WATER	Ground Water/Surface Water	Odour	IS 3025 PART 5
100	CHEMICAL- WATER	Ground Water/Surface Water	Oil and Grease	IS 3025 PART 39 (Partition Gravimetric Method)
101	CHEMICAL- WATER	Ground Water/Surface Water	pH @ 25°C	IS 3025 PART 11 (Electrometric Method)
102	CHEMICAL- WATER	Ground Water/Surface Water	Phenolphthalein Alkalinity as CaCO3	IS 3025 PART 23 (Indicator Method)
103	CHEMICAL- WATER	Ground Water/Surface Water	Reactive Silica as SiO2	IS 3025 PART 35 (Heteropoly blue Method)
104	CHEMICAL- WATER	Ground Water/Surface Water	Sulphide as S-	APHA 23rd Edn.4500 -S2, (Iodometric Method)
105	CHEMICAL- WATER	Ground Water/Surface Water	Sulphite as SO3 2-	APHA 23rd Edn.4500 SO3 2- (Iodometric Method)

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106	CHEMICAL- WATER	Ground Water/Surface Water	Temperature	IS 3025 PART 9
107	CHEMICAL- WATER	Ground Water/Surface Water	Total Acidity as CaCO3	IS 3025 PART 22 (Titrimetric Method)
108	CHEMICAL- WATER	Ground Water/Surface Water	Total Alkalinity as CaCO3	IS 3025 PART 23 (Titrimetric Method)
109	CHEMICAL- WATER	Ground Water/Surface Water	Total Dissolved Solids (TDS)	IS 3025 PART 16
110	CHEMICAL- WATER	Ground Water/Surface Water	Total Hardness as CaCO3	IS 3025 PART 21 (EDTA Titrimetric Method)
111	CHEMICAL- WATER	Ground Water/Surface Water	Total Kjeldahl Nitrogen (TKN)	IS 3025 PART 34 (Macro Kjeldahl Method)
112	CHEMICAL- WATER	Ground Water/Surface Water	Total Phosphorus as P	APHA 4500,P D (Stannous Chloride Method)
113	CHEMICAL- WATER	Ground Water/Surface Water	Total Silica as SiO2	IS 3025 PART 35 (Gravimetric Method)
114	CHEMICAL- WATER	Ground Water/Surface Water	Total Solids	IS 3025 PART 15
115	CHEMICAL- WATER	Ground Water/Surface Water	Total Suspended Solids (TSS)	IS 3025 PART 17
116	CHEMICAL- WATER	Ground Water/Surface Water	Turbidity	IS 3025 PART 10
117	CHEMICAL- WATER	Ground Water/Surface Water	Volatile Solids	IS 3025 PART 18
118	CHEMICAL- WATER	Reagent Grade Water	Colour Retention of KMnO4 at 27°C	IS 1070
119	CHEMICAL- WATER	Reagent Grade Water	pH@25°C	IS 3025 PART 11 (Electrometric Method)
120	CHEMICAL- WATER	Reagent Grade Water	Silica (Reactive) as SiO2	IS 3025 PART 35 (Heteropoly blue Method)
121	CHEMICAL- WATER	Reagent Grade Water	Specific Conductance at 25°C	IS 3025 PART 14
122	CHEMICAL- WATER	Reagent Grade Water	Total Solids	IS 3025 PART 15
123	CHEMICAL- WATER	Water for construction purpose	Chlorides as Cl^-	IS 3025 PART 32 (Argrntometric Method)
124	CHEMICAL- WATER	Water for construction purpose	Fixed Solids	IS 3025 PART 18
125	CHEMICAL- WATER	Water for construction purpose	pH@25°C	IS 3025 PART 11 (Electrometric Method)
126	CHEMICAL- WATER	Water for construction purpose	To Neutralize 100ml of sample water using Mixed indicator using 0.02N H2SO4	IS 3025 PART 23 (Indicator Method)

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127	CHEMICAL- WATER	Water for construction purpose	To Neutralize 100ml of sample water using Phenolphthalein as an indicator using 0.02N NaOH	IS 3025 PART 22 (Indicator Method)
128	CHEMICAL- WATER	Water for construction purpose	Total Suspended Solids (TSS)	IS 3025 PART 17
129	CHEMICAL- WATER	Water for construction purpose	Volatile Solids	IS 3025 PART 18
130	CHEMICAL- WATER	Water for Swimming Pool	Chloride as Cl	IS 3025 PART 32
131	CHEMICAL- WATER	Water for Swimming Pool	Colour	APHA 23rd Edn., 2120 C
132	CHEMICAL- WATER	Water for Swimming Pool	Odour	IS 3025 PART 5
133	CHEMICAL- WATER	Water for Swimming Pool	pH at 25°C	IS 3025 PART 11
134	CHEMICAL- WATER	Water for Swimming Pool	Taste	IS 3025 PART 8
135	CHEMICAL- WATER	Water for Swimming Pool	Total Alkalinity	IS 3025 PART 23
136	CHEMICAL- WATER	Water for Swimming Pool	Total Dissolved Solids (TDS)	IS 3025 PART 16
137	CHEMICAL- WATER	Water for Swimming Pool	Total Residual Chlorine	IS 3025 PART 26
138	CHEMICAL- WATER	Water for Swimming Pool	Turbidity	IS 3025 PART 10