National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GLOBAL ENVIRONMENTAL CONSULTANCY AND RESEARCH CENTRE, 2/390 A, VIBHAV KHAND, LUCKNOW, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8336 **Page No** 1 of 6

Validity 22/04/2022 to 21/04/2024 **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 (NH3)	IS 5182 (Part 25)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Carbon Monoxide (CO)	GECRC/AIR/TP/07, Issue No.01, Issue Date: 23.02.2018 (Based on Electrochemical Sensor)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Dioxide (NO2)	IS: 5182 (Part 6)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone (O3)	IS 5182 (Part IX)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (PM 2.5)	IS:5182 Part 24
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (PM10)	IS: 5182 (Part 23)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO2)	IS: 5182 (Part 2)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Noise levels - Ambient and source Noise levels	Ambient Noise Level	IS 9989
9	CHEMICAL- ATMOSPHERIC POLLUTION	Noise levels - Ambient and source Noise levels	D.G. Noise Level	IS 9989
10	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Dioxide (CO2)	GECRC/INST/SOP/01, Issue No.01, Issue Date: 23.02.2018
11	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Monoxide (CO)	GECRC/INST/SOP/01, Issue No.01, Issue Date: 23.02.2018
12	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Nitrogen Oxides (NOx)	IS 11255 (Part 7)
13	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxygen (O2)	GECRC/INST/SOP/01, Issue No.01, Issue Date: 23.02.2018
14	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter (PM)	IS 11255 (Part 1)
15	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide (SO2)	IS 11255 (Part 2)
16	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Temperature	IS 11255 (Part 3)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	Bulk Density	SOP No.: GECRC/SOIL/TP/05 Issue No.: 01 Feb.
18	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	Calcium carbonate	IS: 2720 (Part 23)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8336 **Page No** 2 of 6

Validity 22/04/2022 to 21/04/2024 **Last Amended on** -

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	Chloride	SOP No.: GECRC/SOIL/TP/11 Issue No.: 01 Feb.
20	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	Electrical Conductivity	IS 14767
21	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	Organic Matter	IS 2720 (Part 22)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	pH	IS 2720 (Part 26)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	Potassium as K / Available K	IS 9497
24	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	Sodium as Na	IS 9497
25	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	Specific Gravity	IS 2720 (Part 3)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	Total Nitrogen (TKN)/ Available N	IS :14684
27	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	Total Phosphorous (as P)/ Available Phosphorous	SOP No.: GECRC/SOIL/TP/14 Issue No.: 01 Feb.
28	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Sediments	Water Content	IS 2720 (Part 2)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Odour	APHA 23rd Edition 2150B
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/ Sewage)	Non-filterable Residue/Total Suspended Solid (TSS)	IS:3025 (Part 17)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage / Effluent)	Colour	APHA 23rd Edition 2120 B
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	Biochemical Oxygen Demand (BOD); 3 Days	IS: 3025 (Part 44)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	Chemical Oxygen Demand (COD)	IS: 3025 (Part 58)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	Chromium (Hexavalent)	IS: 3025 (Part 52)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	Dissolved Oxygen (DO)	IS: 3025 (Part 38)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	Electrical Conductivity	IS: 3025 (Part 14)
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	Filterable Residue/Total Dissolve Solid	IS:3025(Part 16)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8336 **Page No** 3 of 6

Validity 22/04/2022 to 21/04/2024 **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
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	Oil & Grease	IS: 3025 (Part 39)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	pH Value	IS: 3025 (Part 11)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	Temperature	IS: 3025 (Part 9)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	Total Chromium	IS: 3025 (Part 52)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	Total Residue/Total Solids	IS: 3025 (Part 15)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Sewage /Effluent)	Turbidity	IS : 3025 (Part 10)
44	CHEMICAL- WATER	Drinking Water	Acidity	IS:3025 (Part 22)
45	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS:3025 (Part 40)
46	CHEMICAL- WATER	Drinking Water	Carbonate and Bicarbonate	IS:3025 (Part 51)
47	CHEMICAL- WATER	Drinking Water	Chloride as Cl-	IS 3025 (Part 32)
48	CHEMICAL- WATER	Drinking Water	Chromium Hexavalent	IS:3025 (Part 52)
49	CHEMICAL- WATER	Drinking Water	Colour	APHA, 23rd Edition 2120 B
50	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen (DO)	IS 3025 (Part 38)
51	CHEMICAL- WATER	Drinking Water	Electrical Conductivity	IS 3025 (Part 14)
52	CHEMICAL- WATER	Drinking Water	Filterable Residue/Total Dissolve Solid	IS:3025 (Part 16)
53	CHEMICAL- WATER	Drinking Water	Fluoride as F-	IS:3025 (Part 60)
54	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine	APHA 23rd Edition 4500-Cl B
55	CHEMICAL- WATER	Drinking Water	Iron as Fe	IS:3025 (Part 53)
56	CHEMICAL- WATER	Drinking Water	Nitrate as NO3 -	IS:3025 (Part 34)
57	CHEMICAL- WATER	Drinking Water	Non-filterable Residue / Total Suspended Solid (TSS)	IS:3025 (Part 17)
58	CHEMICAL- WATER	Drinking Water	Odour	APHA, 23rd Edition 2150 B
59	CHEMICAL- WATER	Drinking Water	pH Value	IS 3025 (Part 11)
60	CHEMICAL- WATER	Drinking Water	Phenolic Compound	APHA 23rd Edition 5530, A+C
61	CHEMICAL- WATER	Drinking Water	Potassium as K	IS 3025 (Part 45)
62	CHEMICAL- WATER	Drinking Water	Sodium as Na	IS 3025 (Part 45)
63	CHEMICAL- WATER	Drinking Water	Sulphates as SO4 - -	IS:3025 (Part 24)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8336	**Page No**	4 of 6
Validity	22/04/2022 to 21/04/2024	**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
64	CHEMICAL- WATER	Drinking Water	Taste	IS:3025 (Part 7)
65	CHEMICAL- WATER	Drinking Water	Temperature	IS 3025 (Part 9)
66	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	IS:3025 (Part 23)
67	CHEMICAL- WATER	Drinking Water	Total Chromium	IS:3025 (Part 52)
68	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	IS:3025 (Part 21)
69	CHEMICAL- WATER	Drinking Water	Total Residue/Total Solids	IS:3025 (Part 15)
70	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
71	CHEMICAL- WATER	Ground water	Acidity	IS: 3025(Part 22)
72	CHEMICAL- WATER	Ground Water	Biochemical Oxygen Demand (BOD); 3 Days	IS: 3025 (Part 44)
73	CHEMICAL- WATER	Ground Water	Calcium as Ca	IS:3025(Part 40)
74	CHEMICAL- WATER	Ground Water	Carbonate and Bicarbonate	IS: 3025 (Part 51)
75	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand (COD)	IS: 3025 (Part 58)
76	CHEMICAL- WATER	Ground Water	Chloride as Cl-	IS: 3025 (Part 32)
77	CHEMICAL- WATER	Ground Water	Chromium (Hexavalent)	IS: 3025 (Part 52)
78	CHEMICAL- WATER	Ground Water	Dissolved Oxygen (DO)	IS: 3025 (Part 38)
79	CHEMICAL- WATER	Ground Water	Electrical Conductivity	IS: 3025 (Part 14)
80	CHEMICAL- WATER	Ground Water	Filterable Residue/Total Dissolve Solid	IS:3025(Part 16)
81	CHEMICAL- WATER	Ground Water	Fluoride as F -	IS: 3025 (Part 60)
82	CHEMICAL- WATER	Ground Water	Iron as Fe	IS 3025 (Part 53)
83	CHEMICAL- WATER	Ground Water	Magnesium as Mg	IS:3025(Part 46)
84	CHEMICAL- WATER	Ground Water	Nitrate as NO3-	IS: 3025 (Part 34)
85	CHEMICAL- WATER	Ground Water	Non-filterable Residue/Total Suspended Solid(TSS)	IS:3025 (Part 17)
86	CHEMICAL- WATER	Ground Water	Oil & Grease	IS: 3025 (Part 39)
87	CHEMICAL- WATER	Ground Water	pH Value	IS: 3025 (Part 11)
88	CHEMICAL- WATER	Ground Water	Potassium as K	IS: 3025 (Part 45)
89	CHEMICAL- WATER	Ground Water	Sodium as Na	IS: 3025 (Part 45)
90	CHEMICAL- WATER	Ground Water	Sulphates as SO42-	IS: 3025 (Part 24)
91	CHEMICAL- WATER	Ground Water	Temperature	IS: 3025 (Part 9)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8336 **Page No** 5 of 6

Validity 22/04/2022 to 21/04/2024 **Last Amended on** -

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92	CHEMICAL- WATER	Ground Water	Total alkalinity as CaCO3	IS:3025(Part 23)
93	CHEMICAL- WATER	Ground Water	Total Chromium	IS: 3025 (Part 52)
94	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	IS:3025(Part 21)
95	CHEMICAL- WATER	Ground Water	Total Residue/Total Solids	IS: 3025 (Part 15)
96	CHEMICAL- WATER	Ground Water	Turbidity	IS: 3025 (Part 10)
97	CHEMICAL- WATER	Surface Water	Acidity	IS 3025 (Part 22)
98	CHEMICAL- WATER	Surface Water	Biochemical Oxygen demand (BOD), 3 Days	IS 3025 (Part 44)
99	CHEMICAL- WATER	Surface Water	Calcium as Ca	IS:3025 (Part 40)
100	CHEMICAL- WATER	Surface Water	Carbonate and Bicarbonate	IS:3025 (Part 51)
101	CHEMICAL- WATER	Surface Water	Chloride as Cl-	IS 3025 (Part 32)
102	CHEMICAL- WATER	Surface Water	Chromium (Hexavalent)	IS:3025 (Part 52)
103	CHEMICAL- WATER	Surface Water	Dissolved Oxygen (D.O.)	IS 3025 (Part 38)
104	CHEMICAL- WATER	Surface water	Electrical Conductivity	IS:3025 (Part 14)
105	CHEMICAL- WATER	Surface Water	Filterable Residue/Total Dissolve Solid	IS:3025 (Part 16)
106	CHEMICAL- WATER	Surface Water	Fluoride as F-	IS:3025 (Part 60)
107	CHEMICAL- WATER	Surface Water	Free Residual Chlorine	APHA 23rd Edition 4500 ClB
108	CHEMICAL- WATER	Surface Water	Iron as Fe	IS:3025 (Part 53)
109	CHEMICAL- WATER	Surface Water	Magnesium as Mg	IS:3025 (part 46)
110	CHEMICAL- WATER	Surface water	Nitrate as NO3-	IS:3025 (Part 34)
111	CHEMICAL- WATER	Surface water	Non-Filterable Residue/Total Suspended Solid (TSS)	IS:3025 (Part 17)
112	CHEMICAL- WATER	Surface Water	Oil & Grease	IS 3025 (Part 39)
113	CHEMICAL- WATER	Surface water	pH Value	IS 3025 (Part 11)
114	CHEMICAL- WATER	Surface Water	Potassium as K	IS 3025 (Part 45)
115	CHEMICAL- WATER	Surface Water	Sodium as Na	IS 3025 (Part 45)
116	CHEMICAL- WATER	Surface water	Sulphate as SO4- -	IS:3025 (Part 24)
117	CHEMICAL- WATER	Surface Water	Temperature	IS 3025 (Part 9)
118	CHEMICAL- WATER	Surface water	Total Alkanity as CaCO3	IS:3025 (Part 23)
119	CHEMICAL- WATER	Surface water	Total Chromium	IS:3025 (Part 52)
120	CHEMICAL- WATER	Surface Water	Total Hardness as CaCO3	IS:3025 (Part 21)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8336	**Page No**	6 of 6
Validity	22/04/2022 to 21/04/2024	**Last Amended on**	-

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121	CHEMICAL- WATER	Surface water	Total residue/Total Solids	IS:3025 (Part 15)
122	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part 10)