National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ENVIRONMENTAL ENGINEERING LABORATORY, M. S. PATEL DEPARTMENT OF CIVIL ENGINEERING, CSPIT, CHARUSAT, CHARUSAT CAMPUS, CHANGA, ANAND, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 02/08/2021 to 01/08/2023 **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	Oxides of Nitrogen	IS 5182 (Part 6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter PM 2.5	IS 5182 Part 24
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter PM10	IS 5182 (Part 23) Gravimetric Method
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide	IS 5182 (Part 2)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Flue Gases/ Stack emission	Particulate Matter	IS 11255 (Part 1)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Flue Gases/ Stack emission	Oxides of Nitrogen	IS 11255 (Part 7)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Flue Gases/ Stack emission	Sulphur Dioxide	IS 11255(Part 2)
8	CHEMICAL- POLLUTION & ENVIRONMENT	Domestic Sewage/ Hazardous Waste/ Industrial Residue	pH	EPA SW 846 Method 9045 C
9	CHEMICAL- POLLUTION & ENVIRONMENT	Domestic Waste/ Hazardous Waste/ Industrial Residue	Loss on Ignition @ 550 °C	SOP- 43 (Based on APHA 23rd Edition 2540 G) Issue No/Date : 01 / 01.01.
10	CHEMICAL- POLLUTION & ENVIRONMENT	Domestic Waste/ Hazardous Waste/ Industrial Waste	Loss on Drying @ 105 °C	SOP- 42 (Based on APHA (23rd Edition) 2540 G) Issue No/Date : 01 / 01.01.
11	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Acidity	APHA (23rd Edition) 2310 B
12	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Alkalinity	APHA (23rd Edition) 2320 B
13	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Biochemical Oxygen Demand @20"C for 5days.	APHA (23rd Edition) 5210 B
14	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Color	APHA (23rd Edition) 2120 C
15	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Dissolved Oxygen	APHA (23rd Edition) 4500 O C
16	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Electric Conductivity	APHA (23rd Edition) 2510 B
17	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Free Residual Chlorine	APHA (23rd Edition) 4500 Cl

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18	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Mixed liquor suspended solids (MLSS)	APHA (23rd Edition) 2540 D
19	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Mixed liquor volatile suspended solids (MLVSS)	APHA (23rd Edition) 2540 E
20	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Nitrate Nitrogen	APHA (23rd Edition) 4500 NO3,- B
21	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Oil & Grease	APHA (23rd Edition) 5520 B
22	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	pH @ 25'C	APHA (23rd Edition) 4500 H+ B
23	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Phenolic Compound	APHA (23rd Edition) 5530 D
24	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Phosphate	APHA (23rd Edition) 4500 P D
25	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Sulphate	APHA (23rd Edition) 4500-SO42- E
26	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Sulphide	APHA (23rd Edition) 4500 S2- F
27	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Temperature	APHA (23rd Edition) 2550 B
28	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Total Dissolved Solids	APHA (23rd Edition) 2540 C
29	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Total Solids	APHA (23rd Edition) 2540 B
30	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Total Suspended Solids	APHA (23rd Edition) 2540 D
31	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Turbidity	APHA (23rd Edition) 2130 B
32	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Volatile & Fixed Solids	APHA (23rd Edition) 2540 E
33	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Chemical Oxygen Demand (Closed Reflux)	APHA (23rd Edition) 5220 C
34	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Chemical Oxygen Demand (Open Reflux)	APHA (23rd Edition) 5220 B
35	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Chloride	APHA (23rd Edition) 4500 Cl- B
36	CHEMICAL- WATER	Drinking Water	Acidity	APHA (23rd Edition) 2310 B
37	CHEMICAL- WATER	Drinking Water	Alkalinity	APHA (23rd Edition) 2320 B

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38	CHEMICAL- WATER	Drinking Water	Calcium	APHA (23rd Edition) 3500 Ca B
39	CHEMICAL- WATER	Drinking Water	Calcium Hardness as CaCO3	APHA (23rd Edition) 3500 B:
40	CHEMICAL- WATER	Drinking Water	Chloride	APHA (23rd Edition) 4500 Cl- B
41	CHEMICAL- WATER	Drinking Water	Color	Color APHA (23rd Edition) 2120 C
42	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	APHA (23rd Edition) 4500 O C
43	CHEMICAL- WATER	Drinking Water	Electric Conductivity	APHA (23rd Edition) 2510 B
44	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine	APHA (23rd Edition) 4500 Cl
45	CHEMICAL- WATER	Drinking Water	Magnesium	APHA (23rd Edition) 3500 Mg B
46	CHEMICAL- WATER	Drinking Water	Nitrate Nitrogen	APHA (23rd Edition) 4500 NO3,- B:
47	CHEMICAL- WATER	Drinking Water	pH	APHA (23rd Edition) 4500 H+ B
48	CHEMICAL- WATER	Drinking Water	Phosphate	APHA (23rd Edition) 4500 P D
49	CHEMICAL- WATER	Drinking Water	Potassium	APHA (23rd Edition) 3500 K B
50	CHEMICAL- WATER	Drinking Water	Sodium	APHA (23rd Edition) 3500 K B
51	CHEMICAL- WATER	Drinking Water	Sulphate	APHA (23rd Edition) 4500-4500-SO42- E
52	CHEMICAL- WATER	Drinking Water	Sulphide	APHA (23rd Edition) 4500 S2- F
53	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA (23rd Edition) 2540 C
54	CHEMICAL- WATER	Drinking Water	Total Hardness	APHA (23rd Edition) 2340 C
55	CHEMICAL- WATER	Drinking Water	Total Solids	APHA (23rd Edition) 2540 B
56	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	APHA (23rd Edition) 2540 D
57	CHEMICAL- WATER	Drinking Water	Turbidity	APHA (23rd Edition) 2130 B
58	CHEMICAL- WATER	Ground Water	Acidity	APHA (23rd Edition) 2310 B:
59	CHEMICAL- WATER	Ground Water	Alkalinity	APHA (23rd Edition) 2320 B
60	CHEMICAL- WATER	Ground Water	Calcium	APHA (23rd Edition) 3500 Ca B
61	CHEMICAL- WATER	Ground Water	Calcium Hardness as CaCO3	APHA (23rd Edition) 3500 B
62	CHEMICAL- WATER	Ground Water	Chloride	APHA (23rd Edition) 4500 Cl- B
63	CHEMICAL- WATER	Ground Water	Color	APHA (23rd Edition) 2120 C
64	CHEMICAL- WATER	Ground Water	Electric Conductivity	APHA (23rd Edition) 2510 B
65	CHEMICAL- WATER	Ground Water	Magnesium	APHA (23rd Edition) 3500 Mg B

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66	CHEMICAL- WATER	Ground Water	Nitrate Nitrogen	APHA (23rd Edition) 4500 NO3,- B
67	CHEMICAL- WATER	Ground Water	pH	APHA (23rd Edition) 4500 H+ B
68	CHEMICAL- WATER	Ground Water	Phosphate	APHA (23rd Edition) 4500 P D
69	CHEMICAL- WATER	Ground Water	Potassium	APHA (23rd Edition) 3500 K B
70	CHEMICAL- WATER	Ground Water	Sodium	APHA (23rd Edition) 3500 K B
71	CHEMICAL- WATER	Ground Water	Sulphate	APHA (23rd Edition) 4500-4500-SO42- E
72	CHEMICAL- WATER	Ground Water	Sulphide	APHA (23rd Edition) 4500 S2- F
73	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA (23rd Edition) 2540 C
74	CHEMICAL- WATER	Ground Water	Total Hardness	APHA (23rd Edition) 2340 C
75	CHEMICAL- WATER	Ground Water	Total Solids	APHA (23rd Edition) 2540 B
76	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA (23rd Edition) 2540 D
77	CHEMICAL- WATER	Ground Water	Turbidity	APHA (23rd Edition) 2130 B
78	CHEMICAL- WATER	Surface Water	Acidity	APHA (23rd Edition) 2310 B
79	CHEMICAL- WATER	Surface Water	Alkalinity	APHA (23rd Edition) 2320 B
80	CHEMICAL- WATER	Surface Water	Calcium	APHA (23rd Edition) 3500 Ca B
81	CHEMICAL- WATER	Surface Water	Calcium Hardness as CaCO3	APHA (23rd Edition) 3500 B
82	CHEMICAL- WATER	Surface Water	Chloride	APHA (23rd Edition) 4500 Cl- B
83	CHEMICAL- WATER	Surface Water	Color	APHA (23rd Edition) 2120 C
84	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	APHA (23rd Edition) 4500 O C
85	CHEMICAL- WATER	Surface Water	Electric Conductivity	APHA (23rd Edition) 2510 B
86	CHEMICAL- WATER	Surface Water	Magnesium	APHA (23rd Edition) 3500 Mg B
87	CHEMICAL- WATER	Surface Water	Nitrate Nitrogen	APHA (23rd Edition) 4500 NO3,- B
88	CHEMICAL- WATER	Surface Water	pH	APHA (23rd Edition) 4500 H+ B
89	CHEMICAL- WATER	Surface Water	Phosphate	APHA (23rd Edition) 4500 P D
90	CHEMICAL- WATER	Surface Water	Potassium	APHA (23rd Edition) 3500 K B
91	CHEMICAL- WATER	Surface Water	Sodium	APHA (23rd Edition) 3500 K B
92	CHEMICAL- WATER	Surface Water	Sulphate	APHA (23rd Edition) 4500-4500-SO42- E
93	CHEMICAL- WATER	Surface Water	Sulphide	APHA (23rd Edition) 4500 S2- F

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94	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA (23rd Edition) 2540 C
95	CHEMICAL- WATER	Surface Water	Total Hardness	APHA (23rd Edition) 2340 C
96	CHEMICAL- WATER	Surface Water	Total Solids	APHA (23rd Edition) 2540 B
97	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA (23rd Edition) 2540 D
98	CHEMICAL- WATER	Surface Water	Turbidity	APHA (23rd Edition) 2130 B

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Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter PM 2.5	IS 5182 Part 24
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide	IS 5182 (Part 2)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Noise Level	IS 9989
4	CHEMICAL- ATMOSPHERIC POLLUTION	DG Set	Noise Level	IS 4758
5	CHEMICAL- ATMOSPHERIC POLLUTION	Flue Gases/ Stack emission	Particulate Matter	IS 11255 (Part 1)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Flue Gases/ Stack emission	Oxides of Nitrogen	IS 11255 (Part 7)
7	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial Effluent & Domestic Sewage	Temperature	APHA (23rd Edition) 2550 B
8	CHEMICAL- WATER	Drinking Water	pH	APHA (23rd Edition) 4500 H+ B
9	CHEMICAL- WATER	Surface Water	pH	APHA (23rd Edition) 4500 H+ B