National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ENVIRONMENT ENGINEERING LABORATORY DHARMSINH DESAI UNIVERSITY, COLLEGE ROAD, NADIAD, KHEDA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7905 **Page No** 1 of 5

Validity 26/09/2021 to 25/09/2023 **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	Ammonia	IS: 5182 (Part 25)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Chlorine	IS: 5182 (Part 19)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Hydrogen Sulphide	IS : 5182 (Part-VII)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Oxides of Nitrogen	IS: 5182 (Part – VI)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM 2.5	IS: 5182 (Part 24)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	RSPM (PM10)	IS: 5182 (Part - XXIII)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulfer Di Oxide	IS: 5182 (Part - 2)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Ammonia (as NH3)	IS:11255(Part-6)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	CO	IS: 13270 (Part-26)
10	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Hydrogen Sulphide (as H2S)	IS : 11255 (Part-4)
11	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Nitrogen Oxide	IS:11255 (Part-7)
12	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter - PM	IS: 11255 (Part – 1)
13	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulfur Di Oxide	IS: 11255 (Part–2)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water , Effluent & Leachate water	Biological Oxygen Demand	IS: 3025 (Part- 44) (3 days at 27 0C)
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water , Effluent & Leachate water	Calcium	APHA 3500 Ca B Standard Method (23rd edition)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water , Effluent & Leachate water	Dissolved Oxygen	APHA 4500 O C Standard Method (23rd Edition)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water , Effluent & Leachate water	Magensium	APHA 3500 Mg B Standard Method (23rd edition)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water Effluent & Leachate water	Conductivity	APHA 2510 B Standard Method (23rd edition)

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Certificate Number TC-7905 **Page No** 2 of 5

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water Effluent & Leachate water	Total Dissolved Solids	APHA 2540 C (23rd edition)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water Effluent & Leachate water	Total Hardness	APHA 2340 C Standard Method (23rd edition)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water Effluent & Leachate water	Total Suspended Solids	APHA 2540 D Standard Method (23rd edition)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water Effluent & Leachate water	Total Suspended Solids	Waste water Effluent & Leachate water
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water Effluent & Leachate water	Volatile & Fixed Residue	APHA 2540 E Standard Method (23rd edition)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water Effluent & Leachate water	Residual Chlorine	APHA 4500 B & C Standard Method (23rd edition)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water Effluent & Leachate water	pH Value	IS: 3025 (Part–11) (Electrometric Method) (Reaffirmed 2017), APHA 4500-B (23rd edition)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water Effluent & Leachate water	Total Solids	APHA 2540 B Standard Method (23rd edition)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water Effluent & Leachate Water	Temperature	IS: 3025 (Part – 9)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Ammonical Nitrogen	APHA 4500 NH3 B & C Standard Method (23rd edition)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Chemical Oxygen Demand	APHA 5220 B Standard Method (23rd edition)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate Water	Chloride	APHA 4500 Cl B Standard Method (23rd edition)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Chromium as Cr	APHA 3111 B Standard Method (23rd edition)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Chromium as Cr	APHA 3111 B Standard Method (23rd edition)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water, Effluent & Leachate water	Color	APHA 2120 B Standard Method (23rd edition)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Copper as Cu	APHA 3111 B Standard Method (23rd edition)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Cyanide	APHA 4500 CN C & D Standard Method (23rd edition)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Fluoride	APHA 4500 F D Standard Method (23rd edition)

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Certificate Number TC-7905 **Page No** 3 of 5

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37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Hexavalent Chromium	APHA 3500 Cr B Standard Method (23rd edition)
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Iron as Fe	APHA 3111 B Standard Method (23rd edition)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Lead as Pb	APHA 3111 B Standard Method (23rd edition)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Lead as Pb	APHA 3111 B Standard Method (23rd edition)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Mercury as Hg	APHA 3111 2B Standard Method (23rd edition)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Nickel as Ni	APHA 3111 B Standard Method (23rd edition)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Nitrate Nitrogen	APHA 4500 NO3 E Standard Method (23rd edition)
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Nitrite Nitrogen	APHA 4500 NO2 B Standard Method (23rd edition)
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Oil & Grease	APHA 5520 B Standard Method (23rd edition)
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Phenolic Compound	APHA 5530 D Standard Method (23rd edition)
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Phosphate	APHA 4500 P D Standard Method (23rd edition)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Potassium	APHA 3500 K B Standard Method (23rd edition)
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Sodium	APHA 3500 Na B Standard Method (23rd edition)
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Sulphate	APHA 4500 SO4 E Standard Method (23rd edition)
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Sulphide	APHA 4500 S2 D Standard Method (23rd edition)
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Total Acidity as CaCO3	APHA 2310 B Standard Method (23rd edition)
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Total Alkalinity as CaCO3	APHA 2320 B Standard Method (23rd edition)
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent & Leachate water	Zinc as Zn	APHA 3111 B Standard Method (23rd edition)
55	CHEMICAL- WATER	Ground water, Surface water & Saline water	Ammonia Nitrogen	APHA 4500 NH3 B & C Standard Method (23rd edition)

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Certificate Number TC-7905 **Page No** 4 of 5

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56	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Biological Oxygen Demand (3 days at 27 0C)	IS: 3025 (Part- 44)
57	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Calcium	APHA 3500 Ca B Standard Method (23 edition)
58	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Chemical Oxygen Demand	APHA 5220 B Standard Method (23rd edition)
59	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Chloride	APHA 4500 Cl- B (23rd edition) Argentometric method
60	CHEMICAL- WATER	Ground water, Surface water & Saline water	Chromium as Cr	APHA 3111 B Standard Method (23rd edition)
61	CHEMICAL- WATER	Ground Water, Surface water & Saline Water	Color	APHA 2120 C (23rd Ed.) Spectrophotometric Single wavelength method
62	CHEMICAL- WATER	Ground Water, Surface water & Saline Water	Conductivity	APHA 2510 B (23rd Ed.))
63	CHEMICAL- WATER	Ground water, Surface water & Saline water	Copper as Cu	APHA 3111 B Standard Method (23rd edition)
64	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Dissolved Oxygen	APHA 4500 O C (23rd edition)
65	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Fluoride	APHA 4500 F D Standard Method (23rd edition)
66	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Hexavalent Chromium	APHA 3500 Cr B Standard Method (23rd edition)
67	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Iron as Fe	APHA 3111 B Standard Method (23rd edition)
68	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Lead as Pb	APHA 3111 B Standard Method (23rd edition)
69	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Magnesium	APHA 3500 Mg B Standard Method (23rd edition)
70	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Mercury as Hg	APHA 3111 2B Standard Method (23rd edition)
71	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Nickel as Ni	APHA 3111 B Standard Method (23rd edition)
72	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Nitrate Nitrogen	APHA 4500 NO3 E Standard Method (23rd edition)
73	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Nitrite Nitrogen	APHA 4500 NO2 B Standard Method (23rd edition)
74	CHEMICAL- WATER	Ground Water, Surface water & Saline Water	pH value	IS 3025 (Part 11) (Electrometric method) APHA 4500-B (23rd Ed.))

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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
75	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Phosphate	APHA 4500 P D & E Standard Method (23rd edition)
76	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Potassium	APHA 3500 K B Standard Method (23rd edition)
77	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Residual Chlorine	APHA 4500 Cl B & C (23rd edition)
78	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Sodium	APHA 3500 Na B Standard Method (23rd edition)
79	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Sulphate	APHA 4500 SO4 E Standard Method (23rd Edition)
80	CHEMICAL- WATER	Ground Water, Surface water & Saline Water	Temperature	APHA 2550, 2550-B (23rd Ed.), IS 3025 (Part 9)
81	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Total Acidity as CaCO3	APHA 2320 B Standard Method (23rd edition)
82	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Total Alkalinity as CaCO3	APHA 2320 B Standard Method (23rd edition)
83	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Total Dissolved Solids	APHA 2540 C (23rd edition)
84	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Total Hardness	APHA 2340 C (23rd edition) EDTA Titrimetric Method
85	CHEMICAL- WATER	Ground Water, Surface water & Saline Water	Total Solids	APHA 2540 B (23rd Ed.))
86	CHEMICAL- WATER	Ground Water, Surface water & Saline Water	Total Suspended solids	APHA 2540 D (23rd edition)
87	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Volatile and Fixed Residue	APHA 2540 E Standard Method (23rd edition)
88	CHEMICAL- WATER	Ground water, Surface water & Saline Water	Zinc as Zn	APHA 3111 B Standard Method (23rd edition)