National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SHREE DHANVANTARY COLLEGE OF ENGINEERING AND TECHNOLOGY [ENVIRONMENTAL AUDIT LABORATORY], DHANVANTARY CAMPUS, AT-KIM (E), SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11372 **Page No** 1 of 9

Validity 14/02/2023 to 13/02/2025 **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	Air, Gas & Atmosphere	Oxides of Nitrogen (NOX)	IS: 5182 (Part – VI)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	Particulate Matter 2.5 (PM 2.5)	Guidelines for Manual Sampling & Analysis Vol.I :CPCB (MoEF, Govt. of India) Contents Sr. No. (4), P.g. no.15-30 & Operation Manual (Using Fine Particulate Machine) Gravimetric Method
3	CHEMICAL- ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	RESPIRABLE SUSPENDED PARTICULATE MATTER (PMIO)	IS: 5182 (Part - XXIII)`
4	CHEMICAL- ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	SULPHUR DIOXIDE (SO2)	IS: 5182 (Part - 2)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Oxides of Nitrogen (NO2)	IS:11255 (Part-7)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Particulate Matter	IS: 11255 (Part – 1)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Sulphur Dioxide (SO2)	IS: 11255 (Part–2)
8	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Acidity	APHA (23rd Ed.) 2310-B Standard Method (2-34) Titration Method
9	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Alkalinity	APHA (23rd Ed.) 2320-B Standard Method (2-37) Titration Method
10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonical Nitrogen	APHA (23rd Ed.) 4500 NH3-B & C Standard Method(4-114,115,116) Titrimetric Method
11	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Biological Oxygen Demand (3 Days @27°C)	IS:3025 (P-44)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand	APHA (23rd Ed.) 5220-B Standard Method (5-18) Open Reflux Method
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride	APHA (23rd Ed.) 4500Cl-B Standard Method (4-75)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride	APHA (23rd Ed.) 4500Cl-B Standard Method (4-75) Argentometric method

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11372 **Page No** 2 of 9

Validity 14/02/2023 to 13/02/2025 **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
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Color	APHA 23rd Edition visual comparison Method
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Conductivity	APHA(23rd Ed.) 2510-B Standard Method (2-58)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride	APHA (23rd Ed.) 4500F—D Standard Method (4-90) SPANDS Method Ion selective electrode method
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 - EStandard Method (4-131) Cadmium Reduction Method
19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil & Grease	APHA(23rd Ed.) 5520 B Standard Method (5-42) Liquid-Liquid Partition Gravimetric Method
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH Value	IS:3025 (Part–11) (Electrometric Method), APHA (23rd Ed.) 4500-H+-B Standard Method (4-95) Electrometric Method
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenolic Compound	APHA (23rd Ed.) 5530 D Standard Method (5-52) Direct Photometric Method
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphate	APHA (23rd Ed.)4500P-D Standard Method (4-163) Stannous Chloride Method
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate	APHA (23rd Ed.) 4500 SO4-E Standard Method (4-199) Turbidimetric Method
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphide	APHA (23rd Ed.) 4500 S2- F Standard Method (4-187) Iodometric Method
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74), IS: 3025(Part–9)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids	APHA (23rd Ed.) 2540-D Standard Method (2-70)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-E Standard Method (2-71)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11372 **Page No** 3 of 9

Validity 14/02/2023 to 13/02/2025 **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
29	CHEMICAL- WATER	Ground Water	Ammonical Nitrogen	APHA(23rd Ed.) 4500NH3-B& C StandardMethod(4-114,115,116) Titrimetric Method
30	CHEMICAL- WATER	Drinking Water	Acidity	APHA(23rd Ed.) 2310-BStandard Method(2-34) Titration Method
31	CHEMICAL- WATER	Drinking Water	Alkalinity	APHA(23rd Ed.) 2320-BStandard Method (2-37)Titration Method
32	CHEMICAL- WATER	Drinking Water	Ammonical Nitrogen	APHA(23rd Ed.) 4500NH3-B& C StandardMethod(4-114,115,116) Titrimetric Method
33	CHEMICAL- WATER	Drinking Water	Biological Oxygen Demand (3 days @ 27°C)	IS:3025 (P-44)
34	CHEMICAL- WATER	Drinking Water	Calcium	APHA(23rd Ed.) 3500Ca-BStandard Method(3-69) EDTA Titrimetric Method
35	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand	APHA(23rd Ed.) 5220-BStandard Method (5-18) Open Reflux Method
36	CHEMICAL- WATER	Drinking Water	Chloride	APHA(23rd Ed.) 4500Cl-B&GStandard Method(4-75)Argentometric method
37	CHEMICAL- WATER	Drinking Water	Color	APHA 23rd Edition visual comparison Method
38	CHEMICAL- WATER	Drinking Water	Conductivity	APHA(23rd Ed.) 2510-BStandard Method (2-58)
39	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C Standard MethodAzide Modification (4-146, 149) Membrane Electrod Method
40	CHEMICAL- WATER	Drinking Water	Fluoride	APHA(23rd Ed.) 4500F—DStandard Method(4-90) SPANDS Method
41	CHEMICAL- WATER	Drinking Water	Iron as Fe	IS:3025 (P-53) -Phenanthroline Method
42	CHEMICAL- WATER	Drinking Water	Magnesium	APHA(23rd Ed.) 3500 Mg-BStandard Method(3-86) Calculation Method

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11372 **Page No** 4 of 9

Validity 14/02/2023 to 13/02/2025 **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
43	CHEMICAL- WATER	Drinking Water	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 –E Standard Method (4-131) Cadmium Reduction Method
44	CHEMICAL- WATER	Drinking Water	Nitrite Nitrogen	APHA (23rd Ed.) 4500 NO-2 –B Standard Method (4-124) Colorimetric Method
45	CHEMICAL- WATER	Drinking Water	pH	IS:3025 (Part–11)(ElectrometricMethod, APHA (23rd Ed.) 4500-H+-B Standard Method (4-95) Electrometric Method
46	CHEMICAL- WATER	Drinking Water	Phosphate	APHA (23rd Ed.)4500P-D Standard Method (4-163) Stannous Chloride Method
47	CHEMICAL- WATER	Drinking Water	Sulfate	APHA(23rd Ed.) 4500 SO4-EStandard Method(4-199)Turbidimetric Method
48	CHEMICAL- WATER	Drinking Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74), IS: 3025 (Part–9)
49	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69)
50	CHEMICAL- WATER	Drinking Water	Total Hardness	APHA(23rd Ed.) 2340-C Standard Method (2-48) EDTA Titrimetric Method:
51	CHEMICAL- WATER	Drinking Water	Total solids	APHA(23rd Ed.) 2540-B Standard Method (2-68)
52	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	APHA(23rd Ed.) 2540-D Standard Method (2-70)
53	CHEMICAL- WATER	Drinking Water	Turbidity	APHA(23rd Ed.) 2130-BStandard Method (2-13)Nephelometric Method
54	CHEMICAL- WATER	Drinking Water	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-EStandard Method (2-71)
55	CHEMICAL- WATER	Ground Water	Acidity	APHA(23rd Ed.) 2310-BStandard Method(2-34) Titration Method
56	CHEMICAL- WATER	Ground Water	Alkalinity	APHA(23rd Ed.) 2320-BStandard Method (2-37)Titration Method

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11372 **Page No** 5 of 9

Validity 14/02/2023 to 13/02/2025 **Last Amended on** -

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57	CHEMICAL- WATER	Ground Water	Biological Oxygen Demand (3 days @ 27°C)	IS:3025 (P-44)
58	CHEMICAL- WATER	Ground Water	Calcium	APHA(23rd Ed.) 3500Ca-BStandard Method(3-69) EDTA Titrimetric Method
59	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand	APHA(23rd Ed.) 5220-BStandard Method (5-18) Open Reflux Method
60	CHEMICAL- WATER	Ground Water	Chloride	APHA(23rd Ed.) 4500Cl-B&GStandard Method(4-75)Argentometric method
61	CHEMICAL- WATER	Ground Water	Color	APHA(23rd Ed.) 2120- C Standard Method (2-7) Spectrometric Single wavelength method.
62	CHEMICAL- WATER	Ground Water	Conductivity	APHA(23rd Ed.) 2510-BStandard Method (2-58)
63	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C Standard MethodAzide Modification (4-146, 149) Membrane Electrod Method
64	CHEMICAL- WATER	Ground Water	Fluoride	APHA(23rd Ed.) 4500F—DStandard Method(4-90) SPANDS Method
65	CHEMICAL- WATER	Ground Water	Iron as Fe	IS:3025 (P-53) , 10-Phenanthroline Method
66	CHEMICAL- WATER	Ground Water	Magnesium	APHA(23rd Ed.) 3500 Mg-BStandard Method(3-86) Calculation Method
67	CHEMICAL- WATER	Ground Water	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 –E Standard Method (4-131) Cadmium Reduction Method
68	CHEMICAL- WATER	Ground Water	Nitrite Nitrogen	APHA (23rd Ed.) 4500 NO-2 –B Standard Method (4-124) Colorimetric Method
69	CHEMICAL- WATER	Ground Water	pH	IS:3025 (Part–11) (ElectrometricMethod) APHA (23rd Ed.) 4500-H+-B Standard Method (4-95) Electrometric Method

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11372 **Page No** 6 of 9

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70	CHEMICAL- WATER	Ground Water	Phosphate	APHA (23rd Ed.)4500P-D Standard Method (4-163) Stannous Chloride Method
71	CHEMICAL- WATER	Ground Water	Sulfate	APHA(23rd Ed.) 4500 SO4-EStandard Method(4-199)Turbidimetric Method
72	CHEMICAL- WATER	Ground Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74), IS: 3025 (Part–9)
73	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69): 2017
74	CHEMICAL- WATER	Ground Water	Total Hardness	APHA(23rd Ed.) 2340-C Standard Method (2-48) EDTA Titrimetric Method: 2017
75	CHEMICAL- WATER	Ground Water	Total solids	APHA(23rd Ed.) 2540-B Standard Method (2-68): 2017
76	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA(23rd Ed.) 2540-D Standard Method (2-70): 2017
77	CHEMICAL- WATER	Ground Water	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-EStandard Method (2-71): 2017: 2017
78	CHEMICAL- WATER	Ground Water,	Turbidity	APHA(23rd Ed.) 2130-BStandard Method (2-13)Nephelometric Method: 2017
79	CHEMICAL- WATER	Industrial Water	Acidity	APHA(23rd Ed.) 2310-BStandard Method(2-34) Titration Method
80	CHEMICAL- WATER	Industrial Water	Alkalinity	APHA(23rd Ed.) 2320-BStandard Method (2-37)Titration Method
81	CHEMICAL- WATER	Industrial Water	Ammonical Nitrogen	APHA(23rd Ed.) 4500NH3-B& C StandardMethod(4-114,115,116) Titrimetric Method
82	CHEMICAL- WATER	Industrial Water	Biological Oxygen Demand (3 days @ 27°C)	IS:3025 (P-44)
83	CHEMICAL- WATER	Industrial Water	Calcium	APHA(23rd Ed.) 3500Ca-BStandard Method(3-69) EDTA Titrimetric Method

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11372 **Page No** 7 of 9

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84	CHEMICAL- WATER	Industrial Water	Chemical Oxygen Demand	APHA(23rd Ed.) 5220-BStandard Method (5-18) Open Reflux Method
85	CHEMICAL- WATER	Industrial Water	Chloride	APHA(23rd Ed.) 4500Cl-B&GStandard Method(4-75)Argentometric method
86	CHEMICAL- WATER	Industrial Water	Color	APHA 23rd Edition visual comparison Method
87	CHEMICAL- WATER	Industrial Water	Conductivity	APHA(23rd Ed.) 2510-BStandard Method (2-58)
88	CHEMICAL- WATER	Industrial Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C Standard MethodAzide Modification (4-146, 149) Membrane Electrod Method
89	CHEMICAL- WATER	Industrial Water	Fluoride	APHA(23rd Ed.) 4500F—DStandard Method(4-90) SPANDS Method
90	CHEMICAL- WATER	Industrial Water	Iron as Fe	IS:3025 (P-53) 1, 10-Phenanthroline Method
91	CHEMICAL- WATER	Industrial Water	Magnesium	APHA(23rd Ed.) 3500 Mg-BStandard Method(3-86) Calculation Method:
92	CHEMICAL- WATER	Industrial Water	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 –E Standard Method (4-131) Cadmium Reduction Method
93	CHEMICAL- WATER	Industrial Water	Nitrite Nitrogen	APHA (23rd Ed.) 4500 NO-2 –B Standard Method (4-124) Colorimetric Method
94	CHEMICAL- WATER	Industrial Water	pH	IS:3025 (Part–11) (Electrometric Method) APHA (23rd Ed.) 4500-H+-B Standard Method (4-95) Electrometric Method
95	CHEMICAL- WATER	Industrial Water	Phosphate	APHA (23rd Ed.)4500P-D Standard Method (4-163) Stannous Chloride Method
96	CHEMICAL- WATER	Industrial Water	Sulfate	APHA(23rd Ed.) 4500 SO4-EStandard Method(4-199)Turbidimetric Method

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Certificate Number TC-11372 **Page No** 8 of 9

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97	CHEMICAL- WATER	Industrial Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74), IS: 3025 (Part–9)
98	CHEMICAL- WATER	Industrial Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69)
99	CHEMICAL- WATER	Industrial Water	Total Hardness	APHA(23rd Ed.) 2340-C Standard Method (2-48) EDTA Titrimetric Method
100	CHEMICAL- WATER	Industrial Water	Total solids	APHA(23rd Ed.) 2540-B Standard Method (2-68)
101	CHEMICAL- WATER	Industrial Water	Total Suspended Solids	APHA(23rd Ed.) 2540-D Standard Method (2-70)
102	CHEMICAL- WATER	Industrial Water	Turbidity	APHA(23rd Ed.) 2130-BStandard Method (2-13)Nephelometric Method
103	CHEMICAL- WATER	Industrial Water	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-EStandard Method (2-71)

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Certificate Number TC-11372 **Page No** 9 of 9

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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
Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	Oxides of Nitrogen (NOX)	IS: 5182 (Part – VI)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	Particulate Matter 2.5 (PM 2.5)	Guidelines for Manual Sampling & Analysis Vol.I :CPCB (MoEF, Govt. of India) Contents Sr. No. (4), P.g. no.15-30 & Operation Manual (Using Fine Particulate Machine) Gravimetric Method
3	CHEMICAL- ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	RESPIRABLE SUSPENDED PARTICULATE MATTER (PMIO)	IS: 5182 (Part - XXIII)`
4	CHEMICAL- ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	SULPHUR DIOXIDE (SO2)	IS: 5182 (Part - 2)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Flow Rate	IS:1125(Part 3)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Oxides of Nitrogen (NO2)	IS:11255 (Part-7)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Particulate Matter	IS: 11255 (Part – 1)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Sulphur Dioxide (SO2)	IS: 11255 (Part–2)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Temperature	IS: 11255 (Part – 3)
10	CHEMICAL- WATER	Drinking Water	pH	IS:3025 (Part–11)(ElectrometricMethod, APHA (23rd Ed.) 4500-H+-B Standard Method (4-95) Electrometric Method
11	CHEMICAL- WATER	Drinking Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74), IS: 3025 (Part–9)
12	CHEMICAL- WATER	Industrial Water	pH	IS:3025 (Part–11) (Electrometric Method) APHA (23rd Ed.) 4500-H+-B Standard Method (4-95) Electrometric Method
13	CHEMICAL- WATER	Industrial Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74), IS: 3025 (Part–9)