



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name SHREE DHANVANTARY COLLEGE OF DIPLOMA ENGINEERING ENVIRONMENT  
AUDIT LABORATORY, DHANVANTARY CAMPUS, SURAT, GUJARAT , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8510 Page No. : 1 / 12

Validity 23/05/2019 to 22/05/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	NOx	IS: 5182 (Part – VI), 2006 (Reaffirmed 2017): 2017	2 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
2	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	PM 2.5	Guidelines for Manual Sampling & Analysis Vol.I (May-2011) :CPCB (MoEF, Govt. of India) Contents Sr. No. (4), P.g. no.15-30 Gravimetric Method: 2017	4 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup>
3	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	RSPM (PM10)	IS: 5182 (Part - XXIII), 2006 (Reaffirmed 2017): 2017	10 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
4	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	SO2	IS: 5182 (Part - 2), 2001 (Reaffirmed 2017): 2017	5 µg/m <sup>3</sup> to 600 µg/m <sup>3</sup>
5	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Flow Rate	IS:1125(Part 3): 2008	1 LPM to 50 LPM
6	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	NO2	IS:11255 (Part-7), 2005 (Reaffirmed 2017): 2017	2.65 mg/Nm <sup>3</sup> to 400 mg/Nm <sup>3</sup>
7	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	PM	IS: 11255 (Part – 1):1985 (Reaffirmed 2014): 2014	5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
8	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	SO2	IS: 11255 (Part-2), 1985 (Reaffirmed 2014): 2014	4 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
9	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Acidity	APHA (23rd Ed.) 2310-B Standard Method (2-34) Titration Method: 2017	1 mg/l to 5000 mg/l
10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Alkalinity	APHA (23rd Ed.) 2320-B Standard Method (2-37) Titration Method: 2017	1 mg/l to 600 mg/l
11	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Ammonical Nitrogen	APHA (23rd Ed.) 4500 NH3-B & C, Standard Method(4-114,115,116) Titrimetric Method: 2017	1 mg/l to 1000 mg/l
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biological Oxygen Demand (3 Days @27°C)	IS:3025 (P-44)1993 (3 days at 27°C): 2014	2 mg/l to 25000 mg/l
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand	APHA (23rd Ed.) 5220-B Standard Method, (5-18) Open Reflux Method: 2017	5 mg/l to 95000 mg/l
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chloride	APHA (23rd Ed.) 4500Cl-B Standard Method (4-75) Argentometric method: 2017	1 mg/l to 30000 mg/l
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Color	APHA (23rd Ed.) 2120-C Standard Method (2-7) Spectrometric Single wavelength method: 2017	5 Pt-Co to 500 Pt-Co



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Conductivity	APHA(23rd Ed.) 2510- B Standard Method (2- 58) : 2017	0.1 $\mu$ S/m to 200 mS/cm
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Fluoride	APHA (23rd Ed.) 4500F—D Standard Method (4-90) SPANDS Method Ion selective electrode method: 2017	0.1 mg/l to 100 mg/l
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 -E Standard Method (4-131) Cadmium Reduction Method: 2017	0.15 mg/l to 30 mg/l
19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Oil & Grease	APHA(23rd Ed.) 5520 B Standard Method (5- 42) Liquid-Liquid Partition Gravimetric Method : 2017	1 mg/l to 500 mg/l
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APHA (23rd Ed.) 4500- H+-B Standard Method(4-95) Electrometric Method: 2002	1 to 14
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phenolic Compound	APHA (23rd Ed.) 5530 D Standard Method (5- 52) Direct Photometric Method: 2017	0.001 mg/l to 50 mg/l



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phosphate	APHA (23rd Ed.)4500P-D Standard Method (4-163) Stannous Chloride Method: 2017	0.1 mg/l to 50 mg/l
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphate	APHA (23rd Ed.) 4500 SO4-E Standard Method (4-199) Turbidimetric Method: 2017	1 mg/l to 5000 mg/l
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphide	APHA (23rd Ed.) 4500 S2- F Standard Method (4-187) Iodometric Method: 2017	1 mg/l to 50 mg/l
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984 (Reaffirmed 2017): 2017	2 °C to 60 °C
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69): 2017	10 mg/l to 50000 mg/l
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	APHA (23rd Ed.) 2540-D Standard Method (2-70): 2017	1 mg/l to 5000 mg/l
28	CHEMICAL- WATER	Drinking Water	Acidity	APHA(23rd Ed.) 2310-B Standard Method(2-34) Titration Method: 2017	5 mg/l to 500 mg/l



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
29	CHEMICAL- WATER	Drinking Water	Alkalinity	APHA(23rd Ed.) 2320-B Standard Method (2-37)Titration Method: 2017	5 mg/l to 500 mg/l
30	CHEMICAL- WATER	Drinking Water	Biological Oxygen Demand (3 Days @27°C)	IS:3025 (P-44)1993 (3 days at 270.C): 2014	5 mg/l to 1000 mg/l
31	CHEMICAL- WATER	Drinking Water	Calcium	APHA(23rd Ed.) 3500Ca-B Standard Method(3-69) EDTA Titrimetric Method: 2017	5 mg/l to 1000 mg/l
32	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand	APHA(23rd Ed.) 5220-B Standard Method (5-18) Open Reflux Method: 2017	10 mg/l to 1000 mg/l
33	CHEMICAL- WATER	Drinking Water	Chloride	APHA(23rd Ed.) 4500Cl-B&G Standard Method(4-75)Argentometric method: 2017	5 mg/l to 1000 mg/l
34	CHEMICAL- WATER	Drinking Water	Conductivity	APHA(23rd Ed.) 2510-B Standard Method (2-58) : 2017	0.1 mS/cm to 200 mS/cm
35	CHEMICAL- WATER	Drinking Water	Fluoride	APHA(23rd Ed.) 4500F—D Standard Method(4-90) SPANDS Method: 2017	0.2 mg/l to 50 mg/l



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36	CHEMICAL- WATER	Drinking Water	Iron as Fe	IrIS:3025 (P-53):2003 (Reaffirmed 2009) 1, 10-Phenanthroline Method on as Fe: 2009	0.2 mg/l to 10 mg/l
37	CHEMICAL- WATER	Drinking Water	Magnesium	APHA(23rd Ed.) 3500 Mg-B Standard Method(3-86) Calculation Method: 2017	5 mg/l to 1000 mg/l
38	CHEMICAL- WATER	Drinking Water	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 -E Standard Method (4-131) Cadmium Reduction Method: 2017	0.5 mg/l to 10 mg/l
39	CHEMICAL- WATER	Drinking Water	pH	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH A(23rd Ed.) 4500-H+-B Standard Method(4-95)Electrometric Method: 2017	4 to 12
40	CHEMICAL- WATER	Drinking Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984: 2017	2 °C to 60 °C
41	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69): 2017	5 mg/l to 1000 mg/l





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
42	CHEMICAL- WATER	Drinking Water	Total Hardness	APHA(23rd Ed.) 2340-C Standard Method (2-48) EDTA Titrimetric Method: 2017	5 mg/l to 1000 mg/l
43	CHEMICAL- WATER	Drinking Water	Total solids	APHA(23rd Ed.) 2540-B Standard Method (2-68): 2017	5 mg/l to 5000 mg/l
44	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	APHA(23rd Ed.) 2540-D Standard Method (2-70): 2017	5 mg/l to 1000 mg/l
45	CHEMICAL- WATER	Drinking Water	Turbidity	APHA(23rd Ed.) 2130-B Standard Method (2-13)Nephelometric Method: 2017	1 NTU to 1000 NTU
46	CHEMICAL- WATER	Ground Water	Acidity	APHA(23rd Ed.) 2310-B Standard Method(2-34) Titration Method: 2017	5 mg/l to 500 mg/l
47	CHEMICAL- WATER	Ground Water	Alkalinity	APHA(23rd Ed.) 2320-B Standard Method (2-37)Titration Method: 2017	5 mg/l to 500 mg/l
48	CHEMICAL- WATER	Ground Water	Biological Oxygen Demand (3 Days @27°C)	IS:3025 (P-44)1993 (3 days at 270.C): 2017	5 mg/l to 1000 mg/l
49	CHEMICAL- WATER	Ground Water	Calcium	APHA(23rd Ed.) 3500Ca-B Standard Method(3-69) EDTA Titrimetric Method: 2017	5 mg/l to 1000 mg/l



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50	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand	APHA(23rd Ed.) 5220-B Standard Method (5-18) Open Reflux Method: 2017	5 mg/l to 1000 mg/l
51	CHEMICAL- WATER	Ground Water	Chloride	APHA(23rd Ed.) 4500Cl-B&G Standard Method(4-75)Argentometric method: 2017	5 mg/l to 1000 mg/l
52	CHEMICAL- WATER	Ground Water	Color	APHA (23rd Ed.) 2120-C Standard Method (2-7) Spectrometric Single wavelength method: 2017	2 Pt-Co to 500 Pt-Co
53	CHEMICAL- WATER	Ground Water	Conductivity	APHA(23rd Ed.) 2510-B Standard Method (2-58) : 2017	1 mS/cm to 200 mS/cm
54	CHEMICAL- WATER	Ground Water	Fluoride	APHA(23rd Ed.) 4500F D Standard Method(4-90) SPANDS Method: 2017	0.2 mg/l to 50 mg/l
55	CHEMICAL- WATER	Ground Water	Iron as Fe	IS:3025 (P-53):2003 (Reaffirmed 2009) 1, 10-Phenanthroline Method: 2009	0.2 mg/l to 10 mg/l
56	CHEMICAL- WATER	Ground Water	Magnesium	APHA(23rd Ed.) 3500 Mg-B Standard Method(3-86) Calculation Method: 2017	5 mg/l to 1000 mg/l





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
57	CHEMICAL- WATER	Ground Water	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 -EStandard Method (4-131) Cadmium Reduction Method: 2017	0.5 mg/l to 10 mg/l
58	CHEMICAL- WATER	Ground Water	pH	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH A(23rd Ed.) 4500-H+-B Standard Method(4-95)Electrometric Method: 2017	4 to 12
59	CHEMICAL- WATER	Ground Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984: 2017	2 °C to 60 °C
60	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69): 2017	5 mg/l to 1000 mg/l
61	CHEMICAL- WATER	Ground Water	Total Hardness	APHA(23rd Ed.) 2340-C Standard Method (2-48) EDTA Titrimetric Method: 2017	5 mg/l to 1000 mg/l
62	CHEMICAL- WATER	Ground Water	Total solids	APHA(23rd Ed.) 2540-B Standard Method (2-68): 2017	5 mg/l to 5000 mg/l
63	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA(23rd Ed.) 2540-D Standard Method (2-70): 2017	5 mg/l to 1000 mg/l



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
64	CHEMICAL- WATER	Ground Water	Turbidity	APHA(23rd Ed.) 2130-B Standard Method (2-13)Nephelometric Method: 2017	1 NTU to 1000 NTU



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Site Facility</b>					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	NOx	IS: 5182 (Part – VI), 2006 (Reaffirmed 2017): 2017	2 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
2	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	PM 2.5	Guidelines for Manual Sampling & Analysis Vol.I (May-2011) :CPCB (MoEF, Govt. of India) Contents Sr. No. (4), P.g. no.15-30 Gravimetric Method: 2017	4 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup>
3	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	RSPM (PM10)	IS: 5182 (Part - XXIII), 2006 (Reaffirmed 2017): 2017	10 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
4	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	SO2	IS: 5182 (Part - 2), 2001 (Reaffirmed 2017): 2017	5 µg/m <sup>3</sup> to 600 µg/m <sup>3</sup>
5	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Flow Rate	IS:1125(Part 3): 2008	1 LPM to 50 LPM
6	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	NO2	IS:11255 (Part-7), 2005 (Reaffirmed 2017): 2017	2.65 mg/Nm <sup>3</sup> to 400 mg/Nm <sup>3</sup>
7	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	PM	IS: 11255 (Part – 1):1985 (Reaffirmed 2014): 2014	5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
8	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	SO2	IS: 11255 (Part-2), 1985 (Reaffirmed 2014): 2014	4 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>



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9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Temperature	IS: 11255 (Part – 3): 2008	10 °C to 600 °C
10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Temperature	APHA (23rd Ed.) 2550- B Standard Method (2- 74) IS: 3025(Part-9) -1984 (Reaffirmed 2017): 2017	2 °C to 60 °C
11	CHEMICAL- WATER	Drinking Water	pH	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH A(23rd Ed.) 4500-H+-B Standard Method(4- 95)Electrometric Method: 2017	4 to 12
12	CHEMICAL- WATER	Drinking Water	Temperature	APHA (23rd Ed.) 2550- B Standard Method (2- 74) IS: 3025(Part-9) -1984: 2017	2 °C to 60 °C
13	CHEMICAL- WATER	Ground Water	pH	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH A(23rd Ed.) 4500-H+-B Standard Method(4- 95)Electrometric Method: 2017	4 to 12
14	CHEMICAL- WATER	Ground Water	Temperature	APHA (23rd Ed.) 2550- B Standard Method (2- 74) IS: 3025(Part-9) -1984: 2017	2 °C to 60 °C