National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GUJARAT POLLUTION CONTROL BOARD, REGIONAL LABORATORY, GERI COMPOUND, RACE COURSE, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 08/10/2022 to 07/10/2024 **Last Amended on** 22/12/2022

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	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Domestic waste water/sewage/Effluent	Total Coliforms	APHA 23rd Edition, 9221-B(Multiple Tube Fermentation Technique)
2	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Domestic waste water/sewage/Effluent	Fecal Coliform	APHA 23rd Edition,9221-E(Multiple Tube Fermentation Method)
3	BIOLOGICAL- WATER	Ground water & Surface water	Fecal Coliform	IS:1622((Multiple Tube Fermentation Technique)
4	BIOLOGICAL- WATER	Ground water & Surface water	Total Coliforms	IS:1622 (Multiple Tube Fermentation Technique)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Free Chlorine (Cl2)	IS : 5182 (Part- XIX)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Dioxide (NO2)	IS:5182 (Part-VI)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Respirable Suspended Particulate Matter (PM10)	IS:5182 (Part- 23)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO2)	IS:5182 (Part- 2)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent/Stack Emission	Ammonia as NH3	IS:11255(Part 6)
10	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent/stack Emission	Free Chlorine Cl2	IS :5182 (Part XIX)
11	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent/stack Emission	Hydrogen Sulfide (H2S)	IS:11255(Part-4)
12	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent/stack Emission	Oxides of Nitrogen (NO2)	IS:11255 (Part- VII)
13	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent/stack Emission	Particulate Matter (PM)	IS: 11255 (Part – 1)
14	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent/stack Emission	Sulphur dioxide (SO2)	IS:11255 (Part – 2)
15	CHEMICAL- ATMOSPHERIC POLLUTION	Process/Vent/stack Emission	Total Fluoride	IS :11255(Part-5)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage	Total Fixed Solid(TFS at 550oC)	APHA 23rd edition,2540 B(Gravimetric method)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Ammonia Nitrogen as NH3-N	APHA 23rd edition,4500 NH3 C (Titrimetric method)

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18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	BOD @ 27°C (for 3 days)	IS: 3025 (Part 44)
19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Chemical Oxygen Demand	IS : 3025 (Part -58)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Chlorides as Cl	APHA 23rd edition , 4500 Cl- B (Argentometric method)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Hexavalent Chromium	APHA 23rd edition,3500-Cr B (Colorimetric method)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Nitrite Nitrogen as NO2-N	APHA 23rd edition,4500-NO2 B (Colorimetric Method)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Oil & Grease	APHA 23rd edition,5520 B, (Liquid – Liquid Partition Gravimetric method)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Phosphate as PO4-3- Total Phosphate	APHA 23rd edition,4500 – P D (Stannous Chloride method)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Potassium	APHA 23rd edition, 3500 – K B (Flame Photometry method)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Sodium	APHA 23rd edition, 3500 – Na B (Flame Photometry method)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Dissolved Solid (TDS)	APHA 23rd edition ,2540 C(Gravimetric method)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Hardness (as Ca CO3)	APHA 23rd edition,2340 C(EDTA Titrimetric method).
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Volatile & Fixed Residue (at 550oC)	APHA 23rd edition ,2540 E(Gravimetric method)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents & Sewage)	Alkalinity as CaCO3	APHA 23rd edition,2320 B (Titration method)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents & Sewage)	Fluoride as F	APHA 23rd edition, 4500 F- (SPADNS Method)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents & Sewage)	Boron as B	APHA 23rd edition 4500-B B (Curcumin method)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Acidity as CaCO3	APHA 23rd edition, 2310 B (Titration method)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium as Ca	APHA 23rd edition,3500-Ca B(EDTA Titrimetric method).
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Conductivity	APHA 23rd edition, 2510 (Laboratory Method)

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36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cyanide (as CN)	APHA 23rd edition,4500 - CN- D (Preliminary Distillation treatment followed by titration method)
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	APHA 23rd edition, 4500-O C/G (Azide modification/Membrane Electrode Method)
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Magnesium as Mg	APHA 23rd edition,3500 – Mg B (Calculation Method)
39	CHEMICAL- POLLUTION & ENVIRONMENT	waste water (Effluents/Sewage)	Nitrate Nitrogen as NO3-N	APHA 23rd edition,4500 NO3-,B (Ultraviolet Spectrophotometric Screening Method)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	IS: 3025 (Part – II) (Electrometric Method)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenolic Compound (C6H5OH)	APHA 23rd edition 5530 D (Direct Photometric method followed by distillation)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium Absorption Ratio	IS:11624
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphates (as SO4)	APHA 23rd edition, SO42-E- (Turbidimetric method)
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphides (as H2S)	APHA 23rd edition, 4500 S2- F (Iodometric method)
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	IS:3025 (Part-IX)
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Kjeldahl Nitrogen as N	APHA 23rd edition,4500-Norg B (Macro Kjedahl Method)
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Solid	APHA 23rd edition, 2540 B (Gravimetric method)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solid (TSS)	APHA 23rd edition , 2540 D(Gravimetric method)
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Turbidity	APHA 23rd edition,2130 -B (Nephelometric method.)
50	CHEMICAL- POLLUTION & ENVIRONMENT	waste water(Effluent/Sewage)	Iron as Fe	APHA 23rd Edition,3111 B,Metal by Flame Atomic Absorption Spectrometry
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	Iron as Fe	APHA 23rd edition,3500-Fe B (Spectrophotometric method)
52	CHEMICAL- WATER	Ground Water & Surface Water	Alkalinity as CaCO3	APHA 23rd edition,2320 B (Titration method)

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53	CHEMICAL- WATER	Ground Water & Surface Water	Temperature	IS: 3025 (Part-IX)
54	CHEMICAL- WATER	Ground Water & Surface Water	Acidity as CaCO3	APHA 23rd edition, 2310 B (Titration method)
55	CHEMICAL- WATER	Ground Water & Surface Water	Ammonia Nitrogen as NH3-N	APHA 23rd edition,4500 NH3 C (Titrimetric method)
56	CHEMICAL- WATER	Ground Water & Surface Water	BOD 27ºC for 3 days	IS: 3025 (Part 44)
57	CHEMICAL- WATER	Ground Water & Surface Water	Calcium as Ca	APHA 23rd edition,3500-Ca B(EDTA Titrimetric method).
58	CHEMICAL- WATER	Ground Water & Surface Water	Chemical Oxygen Demand	IS:3025 (Part -58)
59	CHEMICAL- WATER	Ground Water & Surface Water	Chloride as Cl	APHA 23rd edition , 4500 Cl- B (Argentometric method)
60	CHEMICAL- WATER	Ground Water & Surface Water	Conductivity	APHA 23rd edition, 2510 (Laboratory Method)
61	CHEMICAL- WATER	Ground Water & Surface Water	Cyanide as CN	APHA 23rd edition,4500 - CN- D (Preliminary Distillation treatment followed by titration method)
62	CHEMICAL- WATER	Ground Water & Surface Water	Dissolved O2	APHA 23rd edition, 4500-O C/G (Azide modification/Membrane Electrode Method)
63	CHEMICAL- WATER	Ground Water & Surface Water	Fluoride as F	APHA 23rd edition, 4500 F- (SPADNS Method)
64	CHEMICAL- WATER	Ground Water & Surface Water	Magnesium as Mg	APHA 23rd edition,3500 – Mg B (Calculation Method)
65	CHEMICAL- WATER	Ground water & Surface water	Nitrate Nitrogen as NO3-N	APHA 23rd edition,4500 NO3-,B (Ultraviolet Spectrophotometric Screening Method)
66	CHEMICAL- WATER	Ground Water & Surface Water	Nitrite Nitrogen as NO2-N	APHA 23rd edition,4500-NO2 B (Colorimetric Method)
67	CHEMICAL- WATER	Ground Water & Surface Water	Oil & Grease	APHA 23rd edition,5520 B, (Liquid – Liquid Partition Gravimetric method)
68	CHEMICAL- WATER	Ground Water & Surface Water	pH Value	IS: 3025 (Part – II) (electrometric Method)
69	CHEMICAL- WATER	Ground Water & Surface Water	Phenolic Compounds as C6H5OH	APHA 23rd edition 5530 D,(Direct Photometric method followed by distillation)
70	CHEMICAL- WATER	Ground Water & Surface Water	Phosphate - as PO4-3 (Total Phosphate)	APHA 23rd edition,4500 – P D (Stannous Chloride method)

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71	CHEMICAL- WATER	Ground Water & Surface Water	Potassium	APHA 23rd edition, 3500 – K B (Flame Photometry method)
72	CHEMICAL- WATER	Ground Water & Surface Water	Sodium	APHA 23rd edition, 3500 – Na B (Flame Photometry method)
73	CHEMICAL- WATER	Ground Water & Surface Water	Sodium Absorption ratio	IS : 11624
74	CHEMICAL- WATER	Ground Water & Surface Water	Sulphate	APHA 23rd edition, SO42-E- (Turbidimetric method)
75	CHEMICAL- WATER	Ground Water & Surface Water	Sulphides as H2S	APHA 23rd edition, 4500 S2- F (Iodometric method)
76	CHEMICAL- WATER	Ground Water & Surface Water	Total Dissolved Solid (TDS)	APHA 23rd edition ,2540 C(Gravimetric method)
77	CHEMICAL- WATER	Ground Water & Surface Water	Total Fixed Solids(TFS at 550oC)	APHA 23rd edition,2540 B(Gravimetric method)
78	CHEMICAL- WATER	Ground Water & Surface Water	Total Hardness as CaCO3	APHA 23rd edition,2340 C(EDTA Titrimetric method).
79	CHEMICAL- WATER	Ground Water & Surface Water	Total Kjeldahl Nitrogen as N	APHA 23rd edition,4500-Norg B (Macro Kjedahl Method)
80	CHEMICAL- WATER	Ground Water & Surface Water	Total Solids	APHA 23rd edition, 2540 B (Gravimetric method)
81	CHEMICAL- WATER	Ground Water & Surface Water	Total Suspended Solids (TSS)	APHA 23rd edition , 2540 D(Gravimetric method)
82	CHEMICAL- WATER	Ground Water & Surface Water	Turbidity	APHA 23rd edition,2130 -B (Nephelometric method.)
83	CHEMICAL- WATER	Ground Water & Surface Water	Volatile & Fixed residue(at 550oC)	APHA 23rd edition ,2540 E(Gravimetric method)

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Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Flue Gas Temperature°C	IS:11255(Part-3)2008
2	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Flue gas Velocity	IS:11255 (Part-3- 2008)