National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MAHARASHTRA INSTITUTE OF TECHNOLOGY, CENTER FOR ANALYTICAL RESEARCH AND STUDIES (MIT-CARS), MIT CAMPUS BEED BY-PASS ROAD, SATARA VILLAGE ROAD, AURANGABAD, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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
Permanent Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Ammonia (NH3)	IS 5182 (Part 25)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Arsenic (As)	USEPA-IO-3.2 (by ICP-OES)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Lead (Pb)	USEPA-IO-3.2 (by ICP-OES)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Mercury (Hg)	USEPA-IO-3.2 (by ICP-OES)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Nickel (Ni)	USEPA-IO-3.2 (by ICP-OES)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Oxides of Nitrogen (NOx)	IS 5182 (Part 6)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Ozone (O3)	IS 5182 (Part 9)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Particulate Matter (PM10)	IS 5182 (Part 23)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Particulate Matter (PM2.5)	IS 5182 (Part 24)
10	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Relative Humidity	IS 5182 (Part 4)
11	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Sulphur Dioxide (SO2)	IS 5182 (Part 2)
12	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Suspended Particulate Matter (SPM)	IS 5182 (Part 4)
13	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Monitoring	Temperature	IS 5182 (Part 4)
14	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Monitoring	Noise Level	IS 9989
15	CHEMICAL- ATMOSPHERIC POLLUTION	Source / Stack Emissions	Flow Rate	IS 11255 (Part 3)
16	CHEMICAL- ATMOSPHERIC POLLUTION	Source / Stack Emissions	Flue gas Velocity	IS 11255 (Part 3)
17	CHEMICAL- ATMOSPHERIC POLLUTION	Source / Stack Emissions	Oxides of Nitrogen (NOx)	IS 11255 (Part 7)
18	CHEMICAL- ATMOSPHERIC POLLUTION	Source / Stack Emissions	Particulate Matter	IS 11255 (Part 1)

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19	CHEMICAL- ATMOSPHERIC POLLUTION	Source / Stack Emissions	Sulphur Dioxide (SO2)	IS 11255 (Part 2)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Available Nitrogen as N	Method No 3.8.2, Guide to laboratory Establishment for Plant Nutrient Analysis, FAO
21	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Available Phosphorous as P2O5	Method No. 12.6, Methods of analysis for soils of arid and semi arid region, FAO Manual
22	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Available Sulphur	Method No. 14.0, Methods of analysis for soils of arid and semi arid region, FAO Manual
23	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Conductivity	Method No. 6.3.1, ,Methods of analysis for soils of arid and semi arid region, FAO Manual:
24	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Exchangeable / Available Calcium as Ca	Method No: 3.11.1.2, Guide to laboratory Establishment for Plant Nutrient Analysis, FAO Method
25	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Exchangeable / Available Magnesium as Mg	Method No: 3.11.1.2, Guide to laboratory Establishment for Plant Nutrient Analysis, FAO Method
26	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Exchangeable / Available Potassium as K2O	Method No 3.10.1, Guide to laboratory Establishment for Plant Nutrient Analysis, FAO
27	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Exchangeable / Available Sodium as Na2O	Method No: 5.12, Methods of Soil, Plant & Water Analysis, ICARDA
28	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Hexavalent chromium as Cr6+	7196 A, EPA SW-846 and 3060 A1-15
29	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Moisture	Method No: 3.3.1, Guide to laboratory Establishment for Plant Nutrient Analysis, FAO
30	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Organic Carbon	Method No: 3.7.1, Guide to laboratory Establishment for Plant Nutrient Analysis, FAO
31	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Organic Matter	Method No: 3.7.1, Methods of analysis for Soils of arid and semi-arid region
32	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	pH	Method No: 6.2.2, Methods of analysis for Soils of arid and semi-arid region, FAO

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33	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Sodium Absorption Ratio (SAR)	IS 11624
34	CHEMICAL- POLLUTION & ENVIRONMENT	Soils	Water Extractable Chloride as Cl	Method No: 6.3.5, Methods of analysis for Soil of arid and semi-arid region, FAO
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water	Boron as B	APHA 23rd Edition 3120- B
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water	Mixed Liquor Suspended Solids (MLSS)	APHA 23rd Edition 2540 D
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Chloride as Cl	APHA 23rd Edition 4500-Cl - B & C
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Phosphorous as P	APHA 23rd Edition 4500 - P D & E
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water	Chemical Oxygen Demand (COD)	APHA 23rd Edition 5220 B
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Fluoride as F	APHA 23rd Edition 4500 - F D
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Hexavalent Chromium as Cr 6+	APHA 23rd Edition 3500 - Cr C
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Mixed liquor volatile suspended solid (MLVSS)	APHA 23rd Edition 2540 E
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Oil and Grease	APHA 23rd Edition 5520 B
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank water.	pH @ 25 C	APHA 23rd Edition 4500 H + B
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Phenolic Compounds	APHA 23rd Edition 5530 B, C & D
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Total Kjeldahl Nitrogen as N	APHA 23rd Edition 4500 - N (org) B
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Total Suspended Solids (TSS)	APHA 23rd Edition 2540 D
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Total Volatile Suspended Solids (TVSS)	APHA 23rd Edition 2540 E
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration, Tank Water.	Ammonical Nitrogen as N	APHA 23rd Edition 4500 - NH3 C
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water	Color	APHA 23rd Edition 2120 D

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51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Ammonical Nitrogen as N	IS 3025 (Part 34)
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Biochemical Oxygen Demand (BOD) for 3 Days	IS 3025 (Part 44)
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Boron as B	APHA 3120 B 23rd edt.
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Cadmium as Cd	APHA 3120 B 23rd edt.
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Chloride as Cl	IS 3025 (Part 32)
57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Copper as Cu	APHA 3120 B 23rd edt.
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Cyanide as CN	APHA 4500 CNE, 23rd Edition
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Fluoride as F	Is 3025 (Part 60)
60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Hexavalent Chromium as Cr 6+	IS 3025 (Part 52)
61	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Iron as Fe	APHA 3120 B 23rd edt.
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Lead as Pb	APHA 3120 B 23rd edt.
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Manganese as Mn	APHA 3120 B 23rd edt.
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Mercury as Hg	APHA 3112 B, 23rd Edition (by ICP-OES Method)
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Mixed Liquor Suspended Solids (MLSS)	IS 3025 (Part 17)
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Mixed liquor volatile suspended solid (MLVSS)	IS 3025 (Part 18)
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Nickel as Ni	APHA 3120 B 23rd edt.
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Oil and Grease	IS 3025 (Part 39)
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	pH @ 25 C	IS 3025 (Part 11)

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70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Phenolic Compounds	IS 3025 (Part 43)
71	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Phosphorous as P	IS 3025 (Part 31)
72	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Residual Free Chlorine	IS 3025 (Part 26)
73	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Selenium as Se	APHA 3120 B 23rd edt.
74	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Sulphate as SO4	IS 3025 (Part 24) 1986 Reaffirmed
75	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Sulphide as S2-	APHA 4500-S2-, F- 23rd Edition
76	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Temperature	APHA 2550 B, 23rd Edition
77	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Total Arsenic as As	APHA 3120 B 23rd edt.
78	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Total Chromium as Cr	APHA 3120 B 23rd edt.
79	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Total Dissolved Solids (TDS) at 105 °C	IS 3025 (Part 16) 1984 Reaffirmed
80	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34)
81	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Total Suspended Solids (TSS)	IS 3025 (Part 17)
82	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Total Volatile Suspended Solids (TVSS)	IS 3025 (Part 18)
83	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Vanadium as V	APHA 3120 B 23rd edt.
84	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage), ETP Water, Liquid Effluents and Aeration Tank Water.	Zinc as Zn	APHA 3120 B 23rd edt.