National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : METAMORPHOSIS LABORATORY PRIVATE LIMITED, PRAKRUTI BHAVAN, # 200, 2ND FLOOR, 1ST CROSS, 40TH MAIN, BTM LAYOUT II STAGE, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

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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	Ammonia as NH3	CPCB Vol. I:2011, MLPL/SOP/41 ; (Indophenol Method (401)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	NOx	IS 5182 : Part 6
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM 10	IS 5182 : Part 23
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM 2.5	CPCB (Vol. 1) 2011, MLPL/SOP/44, 2018 Gravimetric Method
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	SOx	IS 5182 : Part 2 (Improved West & Gaeke method)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Noise Level	Lmin, Lmax and Leq	IS 9989
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	SO2	IS 11255 : Part 2
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	NO2	IS 11255 : Part 7
9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter	IS 11255 : Part 1 & IS 11255 : Part 3
10	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent /Sewage	Biochemical Oxygen Demand at 27°C for 3 days	IS 3025 : Part 44
11	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Ammonical Nitrogen as N	APHA 4500-NH3, 23rd Edition
12	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/Sewage	Chemical Oxygen Demand (COD)	IS 3025 : Part 58 (Open reflux Method)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Ammonical Nitrogen as N	IS 3025 : Part 34 (Titrimetric Method)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Chemical Oxygen Demand (COD)	APHA 23rd Edition 5220 B Open reflux Method
15	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Chloride as Cl	APHA 4500-Cl- B&C23rd Edition, Argentometric Method
16	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Chloride as Cl	IS 3025 : Part 32 (Argentometric Method)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Free Ammonia as NH3	APHA 4500-NH3 C:23rd dition, Titrimetric Method
18	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Free Ammonia as NH3	IS 3025 (Part 34) (Titrimetric Method)

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Oil and Grease	APHA 5520 B :23rd Edition, - Partition Gravimetric Method
20	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Oil and Grease	IS:3025 (Part-39)(Partition Gravimetric Method)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	pH @ 25° C	APHA 4500-H+ B: 23rd Edition Electrometric Method.
22	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	pH @ 25° C	IS:3025 (Part 11) (Electrometric Method)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Residual Chlorine	APHA 4500-Cl B:23rd Edition - Iodometric Titration Method.
24	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Residual Free Chlorine	IS: 3025 (Part 26) (Iodometric Titration Method)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Temperature	APHA 2550 B: 23rd Edition
26	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Temperature	IS 3025 (Part 9) Gravimetric method
27	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Dissolved Solids	APHA 2540 C: 23rd Edition - Gravimetric Method.
28	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Dissolved Solids (TDS)	IS:3025 (Part-16) Gravimetric Method
29	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Kjeldahl Nitrogen as N	APHA 4500-N(org) B 23rd Edition, Macro Kjeldahl Method
30	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Kjeldahl Nitrogen as N	IS 3025 (Part 34) (Macro Kjeldahl Method)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Suspended Solids	APHA 2540 D: 23rd Edition - Gravimetric method
32	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Suspended Solids (TSS)	IS:3025 (Part- 17) (Gravimetric method)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Nitrogen as N	IS 14684
34	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Potassium as K	MLPL/SOP/32 (based on Manual of soil testing in India, DoAg, GOI-2011 Pg99
35	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Conductivity at 25° C	IS 14767 (Iodometric titration method)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Moisture	IS 2720 : Part 2

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37	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH @ 25° C	IS 2720 : Part 26 (Potentiometric Method)
38	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Organic Matter	IS 2720 : Part 22
39	CHEMICAL- WATER	Ground Water, Surface Water	Calcium as Ca	APHA 23rd Edition 3500-Ca B EDTA Titrimetric Method
40	CHEMICAL- WATER	Ground Water, Surface Water	Calcium as Ca	IS 3025 (Part 40) EDTA Titrimetric Method
41	CHEMICAL- WATER	Ground Water, Surface Water	Chloride as Cl	APHA 23rd Edition 4500-Cl- B Argentometric Method
42	CHEMICAL- WATER	Ground Water, Surface Water	Chloride as Cl	IS 3025 (Part 32) Argentometric Method
43	CHEMICAL- WATER	Ground Water, Surface Water	Colour	IS 3025 (Part 4) (Visual Comparison Method)
44	CHEMICAL- WATER	Ground Water, Surface Water	Conductivity @ 25° C	APHA 23rd Edition -2510 B
45	CHEMICAL- WATER	Ground Water, Surface Water	Conductivity@ 25° C	IS:3025 (Part 14) Specific Conductance Method
46	CHEMICAL- WATER	Ground Water, Surface Water	Fluoride as F	APHA 23rd Edition 4500 F D SPADNS colorimetric method
47	CHEMICAL- WATER	Ground Water, Surface Water	Fluoride as F	IS 3025 (Part 60) (Zirconium Alizarin Method Without Distillation)
48	CHEMICAL- WATER	Ground Water, Surface Water	Iron as Fe	IS 3025 (Part 53)
49	CHEMICAL- WATER	Ground Water, Surface Water	Iron as Fe	IS 3025 (Part 53) (Phenanthroline method)
50	CHEMICAL- WATER	Ground Water, Surface Water	Magnesium as Mg	APHA 23rd Edition - 3500-Mg B: - Calculation Method.
51	CHEMICAL- WATER	Ground Water, Surface Water	Magnesium as Mg	IS 3025 (Part 46) Volumetric method using EDTA
52	CHEMICAL- WATER	Ground Water, Surface Water	Nitrate as NO3	APHA 23rd Edition,4500-NO3 B
53	CHEMICAL- WATER	Ground Water, Surface Water	Nitrate as NO3	APHA 4500-NO3 B / IS 3025 (Part 34): Chromotropic Acid Method
54	CHEMICAL- WATER	Ground Water, Surface Water	pH @ 25° C	APHA 23rd Edition,: 4500-H + B: - Electrometric Method.
55	CHEMICAL- WATER	Ground Water, Surface Water	pH @ 25° C	IS:3025 (Part 11) (Electrometric Method)

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56	CHEMICAL- WATER	Ground Water, Surface Water	Potassium as K	APHA 23rd Edition, 3500-K B: - Flame Photometric Method
57	CHEMICAL- WATER	Ground Water, Surface Water	Potassium as K	IS 3025 (Part 45) (Flame Photometric Method)
58	CHEMICAL- WATER	Ground Water, Surface Water	Residual chlorine	APHA 23rd Edition,4500-Cl B Iodometric Titration Method
59	CHEMICAL- WATER	Ground Water, Surface Water	Residual Free Chlorine	IS:3025 (Part 26) (Iodometric Titration Method)
60	CHEMICAL- WATER	Ground Water, Surface Water	Sodium as Na	APHA 23rd Edition, 3500-Na B: Flame Photometer
61	CHEMICAL- WATER	Ground Water, Surface Water	Sodium as Na	IS: 3025 (Part 45) (Flame Photometer Method)
62	CHEMICAL- WATER	Ground Water, Surface Water	Sulphate as SO4	APHA 23rd Edition,4500-SO4 E Turbidity Method
63	CHEMICAL- WATER	Ground Water, Surface Water	Sulphate as SO4	IS : 3025 (Part 24) (Turbidity Method)
64	CHEMICAL- WATER	Ground Water, Surface Water	Total Alkalinity as CaCO3	APHA 23rd Edition, 2320 B: Titration method.
65	CHEMICAL- WATER	Ground Water, Surface Water	Total Alkalinity as CaCO3	IS: 3025 (Part 23) (Titration method)
66	CHEMICAL- WATER	Ground Water, Surface Water	Total Dissolved Solids	APHA 23rd Edition,2540 C Gravimetric Method
67	CHEMICAL- WATER	Ground Water, Surface Water	Total Dissolved Solids (TDS)	IS: 3025 (Part 16) (Gravimetric Method)
68	CHEMICAL- WATER	Ground Water, Surface Water	Total Hardness as CaCO3	APHA 23rd Edition,2340 C EDTA Titrimetric Method
69	CHEMICAL- WATER	Ground Water, Surface Water	Total Hardness as CaCO3	IS: 3025 (Part 21) (EDTA Titrimetric Method)
70	CHEMICAL- WATER	Ground Water, Surface Water	Turbidity	APHA 2130 B, 23rd Edition
71	CHEMICAL- WATER	Ground Water, Surface Water	Turbidity	IS 3025 (Part 10) (Nephalometric method)
72	CHEMICAL- WATER	Potable Water	Calcium as Ca	APHA 23rd Edition - 3500-Ca B EDTA Titrimetric Method
73	CHEMICAL- WATER	Potable Water	Calcium as Ca	IS 3025(Part-40) (EDTA Titrimetric Method)
74	CHEMICAL- WATER	Potable Water	Chloride as Cl	APHA 23rd Edition -4500-Cl- B Argentometric Method

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75	CHEMICAL- WATER	Potable Water	Chloride as Cl	IS 3025(Part-32) (Argentometric Method)
76	CHEMICAL- WATER	Potable Water	Colour	IS 3025(Part-4) (Visual comparison Method)
77	CHEMICAL- WATER	Potable Water	Conductivity @ 25 0C	IS 3025(Part-14) (Specific conductance Method)
78	CHEMICAL- WATER	Potable Water	Conductivity @ 25°C	APHA 23rd Edition, 2510 B
79	CHEMICAL- WATER	Potable Water	Fluoride as F	APHA 23rd Edition 4500 F D SPADNS colorimetric method
80	CHEMICAL- WATER	Potable Water	Fluoride as F	IS 3025 (Part 60) (Zirconium Alizarin Method Without Distillation)
81	CHEMICAL- WATER	Potable Water	Iron as Fe	APHA 23rd Edition; 3500 Fe B 1, 10 Phenanthroline method
82	CHEMICAL- WATER	Potable Water	Iron as Fe	IS 3025 (Part 53)
83	CHEMICAL- WATER	Potable Water	Magnesium as Mg	APHA 23rd Edition, 3500-Mg, B-Calculation Method.
84	CHEMICAL- WATER	Potable Water	Magnesium as Mg	IS 3025(Part-46) (Volumetric method using EDTA)
85	CHEMICAL- WATER	Potable Water	Nitrate as NO3	APHA 23rd Edition, 4500-NO3 B
86	CHEMICAL- WATER	Potable Water	Nitrate as NO3	IS 3025 (Part-34) (Chromotropic Acid Method)
87	CHEMICAL- WATER	Potable Water	pH @ 25 0C	IS:3025 (Part 11) (Electrometric method)
88	CHEMICAL- WATER	Potable Water	pH @ 25° C	APHA - 23rd Edition,: 4500-H + B: - Electrometric Method.
89	CHEMICAL- WATER	Potable Water	Potassium as K	APHA 23rd Edition, 3500-K B Flame Photometric Method
90	CHEMICAL- WATER	Potable Water	Potassium as K	IS 3025 (Part-45) (Flame Photometric Method)
91	CHEMICAL- WATER	Potable Water	Residual chlorine	APHA 23rd Edition, 500-Cl B Iodometric Titration Method
92	CHEMICAL- WATER	Potable Water	Residual chlorine	IS 3025 (Part-26) (Iodometric Titration Method)
93	CHEMICAL- WATER	Potable Water	Sodium as Na	APHA 23rd Edition, 3500-Na B Flame Photometer
94	CHEMICAL- WATER	Potable Water	Sodium as Na	IS 3025 (Part-45) (Flame Photometry Method)

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95	CHEMICAL- WATER	Potable Water	Sulphate as SO4	APHA 23rd Edition, 500-SO4 E Turbidity Method
96	CHEMICAL- WATER	Potable Water	Sulphate as SO4	IS 3025 (Part-24) (Turbidity Method)
97	CHEMICAL- WATER	Potable Water	Total Alkalinity as CaCO3	APHA 23rd Edition, 2320 B Titration method.
98	CHEMICAL- WATER	Potable Water	Total Alkalinity as CaCO3	IS 3025 (Part-23) (Indicator Method)
99	CHEMICAL- WATER	Potable Water	Total Dissolved Solids	APHA 23rd Edition,2540 C Gravimetric Method
100	CHEMICAL- WATER	Potable Water	Total Dissolved Solids	IS 3025 (Part-16) (Gravimetric Method)
101	CHEMICAL- WATER	Potable Water	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C EDTA Titrimetric Method
102	CHEMICAL- WATER	potable Water	Total Hardness as CaCO3	IS 3025 (Part-21) (EDTA Method)
103	CHEMICAL- WATER	Potable Water	Turbidity	APHA 23rd Edition 2130 B
104	CHEMICAL- WATER	Potable Water	Turbidity	IS 3025 (Part-10) (Nephalometric method)