National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GENERAL ANALYTICAL LABORATORY, #16,17TH CROSS, 13TH MAIN, MALLESHWARAM, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5457 **Page No** 1 of 6

Validity 27/08/2021 to 26/08/2023 **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	Ambient air	Nitrogen Dioxide (as NO2)	IS 5182 (Part 6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Respirable Suspended Particulate Matter(PM10)	IS 5182 (Part 23)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur dioxide(as SO2)	IS 5182 (Part 2)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Level	Leq, Lmin,Lmax	IS 9989
5	CHEMICAL- ATMOSPHERIC POLLUTION	Light illumination	Lux	IS 3646 (Part 1)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxides of Nitrogen(as NOx)	IS 11255 (Part 7)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter	IS 11255 (Part 1)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide(as SO2)	IS 11255 (Part 2)
9	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Sodium as Na	IS 3025 (Part 45)
10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Ammonical Nitrogen	IS 3025 (Part 34)
11	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Biochemical Oxygen Demand	IS 3025 (Part 44)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Calcium as Ca	IS 3025 (Part 40)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Chemical Oxygen Demand	IS 3025 (Part 58)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Chloride as Cl	IS 3025 (Part 32)
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	conductivity	IS 3025 (Part 14)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Copper as Cu	IS 3025 (Part 42) AAS method
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Dissolved Oxygen	IS 3025 (Part 38)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Lead as Pb	IS 3025 (Part 47)AAS method

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5457 **Page No** 2 of 6

Validity 27/08/2021 to 26/08/2023 **Last Amended on** -

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Magnesium as Mg	IS 3025 (Part 46) APHA 23rd Edition 3500-Mg B
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Manganese as Mn	IS 3025 (Part 59) AAS method
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Oil and Grease	IS 3025 (Part 39)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Percent Sodium	IS 2488 (Part 4)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	pH Value	IS 3025 (Part 11)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Potassium as K	IS 3025 (Part 45)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Residual Sodium Carbonate	IS 11624
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Sodium Absorption Ratio	IS 11624
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Sulphate as SO4	IS 3025 (Part 24)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Total Hardness as CaCO3	IS 3025 (Part 21)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Total Kjeldhal Nitrogen	IS 3025 (Part 34)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Turbidity	IS 3025 (Part 10)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Zinc as Zn	IS 3025 (Part 49) AAS method
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Iron as Fe	IS 3025 (Part 53) AAS method
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Nickel as Ni	IS 3025 (Part 54) AAS method
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Phosphate as PO4	IS 3025 (Part 31) Stannous chloride method
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Total Chromium as Cr	IS 3025 (Part 52)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Aluminium as Al	IS 3025 (Part 55) Eriochromocyanine R method
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Nitrate as NO3	IS 3025 (Part 34) Chromotropic acid method

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5457 **Page No** 3 of 6

Validity 27/08/2021 to 26/08/2023 **Last Amended on** -

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Nitrite as NO2	IS 3025 (Part 34) Spectrophotometeric method
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Acidity	IS 3025 (Part 22)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Dissolved Solids	IS 3025 (Part 16)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Solids	IS 3025 (Part 15)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Suspended Solids	IS 3025 (Part 17)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Boron as B	APHA 23rd Edition 4500-B B
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Colour	IS 3025 (Part 4) Visual Comparison method
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Fluoride as F	APHA 23rd Edition 4500-F D
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Free Residual Chlorine	IS 3025 (Part 26)
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/ Sewage)	Total Alkalinity as CaCO3	IS 3025(Part 23)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Odour	IS 3025 (Part 5)
49	CHEMICAL- RESIDUES IN WATER	Drinking water/Ground water/water from purifiers	Copper as Cu	IS 3025 (Part 42) AAS method
50	CHEMICAL- RESIDUES IN WATER	Drinking water/Ground water/water from purifiers	Iron as Fe	IS 3025(Part 53) AAS method
51	CHEMICAL- RESIDUES IN WATER	Drinking water/Ground water/water from purifiers	Lead as Pb	IS 3025 (Part 47) AAS method
52	CHEMICAL- RESIDUES IN WATER	Drinking water/Ground water/water from purifiers	Manganese as Mn	IS 3025 (Part 59) AAS method
53	CHEMICAL- RESIDUES IN WATER	Drinking water/Ground water/water from purifiers	Nickel as Ni	IS 3025 (Part 54) AAS method
54	CHEMICAL- RESIDUES IN WATER	Drinking water/Ground water/water from purifiers	Total Chromium as Cr	IS 3025 (Part 52) AAS method
55	CHEMICAL- RESIDUES IN WATER	Drinking water/Ground water/water from purifiers	Zinc as Zn	IS 3025 (Part 49) AAS method
56	CHEMICAL- WATER	Drinking water	Aluminium as Al	IS 3025 (Part 55) Eriochromocyanine R method

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5457 **Page No** 4 of 6

Validity 27/08/2021 to 26/08/2023 **Last Amended on** -

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57	CHEMICAL- WATER	Drinking water	Boron as B	APHA 23rd Edition 4500-B B
58	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 (Part 40)
59	CHEMICAL- WATER	Drinking water	Chlorides as Cl	IS 3025 (Part 32)
60	CHEMICAL- WATER	Drinking water	Colour	IS 3025 (Part 4) Visual Comparison Method
61	CHEMICAL- WATER	Drinking Water	Conductivity	IS 3025 (Part14)
62	CHEMICAL- WATER	Drinking water	Dissolved Oxygen	IS 3025 (Part 38)
63	CHEMICAL- WATER	Drinking water	Fluoride as F	APHA 23rd Edition 4500-F-D
64	CHEMICAL- WATER	Drinking water	Free Residual Chlorine	IS 3025 (Part 26) Iodometric method
65	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	APHA 23rd Edition 3500-Mg B
66	CHEMICAL- WATER	Drinking water	Nitrate as NO3	IS 3025 (Part 34) Chromo tropic acid Method
67	CHEMICAL- WATER	Drinking water	Nitrite as NO2	IS 3025 (Part 34) Spectrophotometric method
68	CHEMICAL- WATER	Drinking water	Odour	IS 3025 (Part 5)
69	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11)
70	CHEMICAL- WATER	Drinking water	Phosphates as PO4	IS 3025 (Part 31) Stannous Chloride Method
71	CHEMICAL- WATER	Drinking water	Potassium as K	is 3025 (Part 45)
72	CHEMICAL- WATER	Drinking water	Sodium as Na	IS 3025 (Part 45)
73	CHEMICAL- WATER	Drinking water	Sulfates as SO4	IS 3025 (Part 24)
74	CHEMICAL- WATER	Drinking water	Total Acidity	IS 3025 (Part 22)
75	CHEMICAL- WATER	Drinking water	Total Alkalinity as CaCo3	IS 3025 (Part 23)
76	CHEMICAL- WATER	Drinking water	Total Dissolved Solids	IS 3025 (Part 16)
77	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCo3	IS 3025 (Part 21)
78	CHEMICAL- WATER	Drinking water	Total Solids	IS 3025 (Part 15)
79	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (Part 17)
80	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
81	CHEMICAL- WATER	Ground water	Aluminium as Al	IS 3025 (Part 55) Eriochromcyanine R method
82	CHEMICAL- WATER	Ground water	Boron as B	APHA 23rd EDITION 4500-B B
83	CHEMICAL- WATER	Ground water	Calcium as Ca	IS 3025 (Part 40)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5457 **Page No** 5 of 6

Validity 27/08/2021 to 26/08/2023 **Last Amended on** -

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84	CHEMICAL- WATER	Ground Water	Chlorides as Cl	IS 3025 (Part 32)
85	CHEMICAL- WATER	Ground water	Colour	IS 3025 (Part 4) Visual comparison method
86	CHEMICAL- WATER	Ground water	Conductivity	IS 3025 (Part 14)
87	CHEMICAL- WATER	Ground water	Dissolved oxygen	IS 3025 (Part 38)
88	CHEMICAL- WATER	Ground water	Fluoride as F	APHA 23rd Edition 4500-F D
89	CHEMICAL- WATER	Ground water	Free Residual Chlorine	IS 3025 (Part 26) Iodometric method
90	CHEMICAL- WATER	Ground water	Magnesium as Mg	APHA 23rd Edition 3500-Mg B
91	CHEMICAL- WATER	Ground water	Nitrate as NO3	IS 3025 (Part 34) Chromotropic acid method
92	CHEMICAL- WATER	Ground water	Nitrite as NO2	IS 3025 (Part 34) Spectrophotometric method
93	CHEMICAL- WATER	Ground water	Odour	IS 3025 (Part 5)
94	CHEMICAL- WATER	Ground Water	pH	IS 3025 (Part 11)
95	CHEMICAL- WATER	Ground water	Phosphate as PO4	IS 3025 (Part 31)Stannous Chloride method
96	CHEMICAL- WATER	Ground water	Potassium as K	IS 3025 (Part 45)
97	CHEMICAL- WATER	Ground water	Sodium as Na	IS 3025 (Part 45)
98	CHEMICAL- WATER	Ground water	Sulfates as SO4	IS 3025 (Part 24)
99	CHEMICAL- WATER	Ground water	Total Acidity	IS 3025 (Part 22)
100	CHEMICAL- WATER	Ground water	Total Alkalinity as CaCo3	IS 3025 (Part 23)
101	CHEMICAL- WATER	Ground water	Total Dissolved Solids	IS 3025 (Part 16)
102	CHEMICAL- WATER	Ground water	Total Hardness as CaCo3	IS 3025 (Part 21)
103	CHEMICAL- WATER	Ground water	Total Solids	IS 3025 (Part 15)
104	CHEMICAL- WATER	Ground water	Total Suspended Solids	IS 3025 (Part 17)
105	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10)
106	CHEMICAL- WATER	Water from Purifiers	Aluminium as Al	IS 3025 (Part 55)Eriochromcyanine R Method
107	CHEMICAL- WATER	Water from purifiers	Boron as B	APHA 23rd Edition,4500-B B
108	CHEMICAL- WATER	Water from purifiers	Calcium as Ca	IS 3025 (Part 40)
109	CHEMICAL- WATER	Water from purifiers	Chlorides as Cl	IS 3025 (Part 32)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5457 **Page No** 6 of 6

Validity 27/08/2021 to 26/08/2023 **Last Amended on** -

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110	CHEMICAL- WATER	Water from purifiers	Colour	IS 3025 (Part 4)Visual comparison method
111	CHEMICAL- WATER	Water from purifiers	Conductivity	IS 3025 (Part 14)
112	CHEMICAL- WATER	Water from purifiers	Dissolved Oxygen	IS 3025 (Part 38)
113	CHEMICAL- WATER	Water from purifiers	Fluoride as F	APHA 23rd edition 4500-F D
114	CHEMICAL- WATER	Water from purifiers	Free Residual chlorine	IS 3025 (Part 26)Iodomertic method
115	CHEMICAL- WATER	Water from purifiers	Magnesium as Mg	APHA 23rd EDITION 3500-Mg B
116	CHEMICAL- WATER	Water from purifiers	Nitrate as NO3	IS 3025 (Part 34)Chromo tropic acid method
117	CHEMICAL- WATER	Water from purifiers	Nitrite as NO2	IS 3025 (Part 34) Spectrophotometric method
118	CHEMICAL- WATER	Water from purifiers	Odour	IS 3025 (Part 5)
119	CHEMICAL- WATER	Water from Purifiers	pH	IS 3025 (Part 11)
120	CHEMICAL- WATER	Water from purifiers	Phosphates as PO4	IS 3025 (Part 31)Stannous chloride method
121	CHEMICAL- WATER	Water from purifiers	Potassium as K	IS 3025 (Part 45)
122	CHEMICAL- WATER	Water from purifiers	Sodium as Na	IS 3025 (Part 45)
123	CHEMICAL- WATER	Water from purifiers	Sulfates as SO4	IS 3025 (Part 24)
124	CHEMICAL- WATER	Water from Purifiers	Total Acidity	IS 3025 (Part 22)
125	CHEMICAL- WATER	Water from purifiers	Total Alkalinity as CaCO3	IS 3025 (Part 23)
126	CHEMICAL- WATER	Water from purifiers	Total Dissolved Solids	IS 3025 (Part 16)
127	CHEMICAL- WATER	Water from purifiers	Total Hardness as CaCo3	IS 3025 (Part 21)
128	CHEMICAL- WATER	Water from purifiers	Total Solids	IS 3025 (Part 15)
129	CHEMICAL- WATER	Water from purifiers	Total Suspended Solids	IS 3025 (Part 17)
130	CHEMICAL- WATER	Water from Purifiers	Turbidity	IS 3025 (Part 10)