National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ENVIRONMENT LABORATORY, REGIONAL INSTITUTE -II, CMPDI DHANBAD, CMPDIL, RI-2, KOYLABHAWAN, KOYLANAGAR, DHANBAD, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10122 **Page No** 1 of 4

Validity 07/12/2021 to 06/12/2023 **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	NOx	IS-5182 (Part-6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM10	IS 5182 (Part 23)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM2.5	IS 5182: Part 24
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	SO2	IS-5182(Part-2)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Level	Sound Pressure Level, Measurement for Noise level for L10,L50, L90, Lmin, Lmax & Leq in dB(A)	Protocol for Noise Monitoring, CPCB
6	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Hexavalent Chromium	IS 3025 (Part 52)
7	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	B.O.D (3 days 27 deg C), mg/L	IS 3025 (Part 44)
8	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Chemical Oxygen Demand, mg/L	APHA 23rd Edition 5220 C
9	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Color	APHA, 23rd Edition , 2120-B-
10	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Copper	IS 3025 (Part 42)
11	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Dissolved Oxygen	IS 3025 (Part 38)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Dissolved Phosphate	IS 3025 (Part 31)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Fluoride	APHA, 23rd Edition, 4500 F- D.
14	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Iron	IS 3025 (Part 53)
15	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Manganese	APHA, 23rd Edition, 3111B,
16	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Nickel	IS-3025(Part 54)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Nitrate-Nitrogen	APHA, 23rd Edition, 4500-NO3-B

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Certificate Number TC-10122 **Page No** 2 of 4

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18	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Odour	APHA, 23rd Edition, , 2150-C
19	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Oil and Grease	IS 3025, Part 39
20	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	pH value	IS 3025 (Part 11)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Temperature (o C)	IS 3025,(Part 9)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Total Chromium	IS-3025(Part 52)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Total Suspended Solids	IS 3025, (Part 17)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Zinc	IS 3025(Part 49)
25	CHEMICAL- RESIDUES IN WATER	Ground Water/Surface Water / Drinking Water	Copper	IS 3025 (Part 42)
26	CHEMICAL- RESIDUES IN WATER	Ground Water/Surface Water / Drinking Water	Iron	IS 3025 (Part 53)
27	CHEMICAL- RESIDUES IN WATER	Ground Water/Surface Water / Drinking Water	Manganese	APHA, 23rd Edition, 3111B
28	CHEMICAL- RESIDUES IN WATER	Ground Water/Surface Water / Drinking Water	Nickel	IS-3025(Part 54)
29	CHEMICAL- RESIDUES IN WATER	Ground Water/Surface Water / Drinking Water	Total Chromium	IS-3025(Part 52)
30	CHEMICAL- RESIDUES IN WATER	Ground Water/Surface Water / Drinking Water	Zinc	IS 3025 (Part 49)
31	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025, (Part 40)
32	CHEMICAL- WATER	Drinking Water	Chlorides	IS-3025(Part 32)
33	CHEMICAL- WATER	Drinking Water	Colour	APHA, 23rd Edition , 2120-C
34	CHEMICAL- WATER	Drinking Water	Fluoride,	APHA, 23rd Edition, 4500 F- D
35	CHEMICAL- WATER	Drinking Water	Magnesium,	APHA 23rd Edition, 3500-Mg - B:
36	CHEMICAL- WATER	Drinking Water	Nitrate	APHA, 23rd Edition, 4500-NO3- B
37	CHEMICAL- WATER	Drinking Water	Odour	APHA, 23rd Edition, , 2150-C
38	CHEMICAL- WATER	Drinking Water	pH value	IS 3025, Part 11

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39	CHEMICAL- WATER	Drinking Water	Sulphate	APHA –23rd Edition,4500-SO42- E.
40	CHEMICAL- WATER	Drinking Water	Taste	APHA,23rd Edition, 2160-C
41	CHEMICAL- WATER	Drinking Water	Total Alkalinity (as CaCO3)	IS 3025, Part 23
42	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025, (Part 16)
43	CHEMICAL- WATER	Drinking Water	Total Hardness,	IS 3025, (Part 21)
44	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025, (Part 10)
45	CHEMICAL- WATER	Ground Water	Calcium	IS 3025, (Part 40)
46	CHEMICAL- WATER	Ground Water	Chlorides	IS-3025(Part 32)
47	CHEMICAL- WATER	Ground Water	Colour	APHA, 23rd Edition , 2120-C-
48	CHEMICAL- WATER	Ground Water	Fluoride	APHA, 23rd Edition, 4500 F- D.
49	CHEMICAL- WATER	Ground Water	Magnesium	APHA 23rd Edition, 3500-Mg - B
50	CHEMICAL- WATER	Ground Water	Nitrate	APHA, 23rd Edition, 4500-NO3-B -
51	CHEMICAL- WATER	Ground Water	Odour	APHA, 23rd Edition, 2150-C
52	CHEMICAL- WATER	Ground Water	pH value	IS 3025 (Part 11)
53	CHEMICAL- WATER	Ground Water	Sulphate	APHA –23rd Edition,4500- SO4 2- E
54	CHEMICAL- WATER	Ground Water	Taste	APHA,23rd Edition, 2160-C
55	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025, Part 16
56	CHEMICAL- WATER	Ground Water	Total Alkalinity (as CaCO3)	IS 3025, (Part 23)
57	CHEMICAL- WATER	Ground Water	Total Hardness	IS 3025, (Part 21)
58	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025, (Part 10)
59	CHEMICAL- WATER	Surface Water	BOD (3 day incubation at 27°C)	IS 3025 (Part 44)
60	CHEMICAL- WATER	Surface water	Chlorides	IS-3025 (Part 32)
61	CHEMICAL- WATER	Surface Water	Colour	APHA, 23rd Edition , 2120
62	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	IS 3025 (Part 38) Winkler Azide Method
63	CHEMICAL- WATER	Surface water	Fluoride	APHA, 23rd Edition, SPADNS Method
64	CHEMICAL- WATER	Surface Water	Hexavalent Chromium	IS 3025 (Part 52)
65	CHEMICAL- WATER	Surface Water	Nitrate	APHA, 23rd Edition, 4500-NO3-B.

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66	CHEMICAL- WATER	Surface Water	pH value	IS 3025, (Part 11) Electrometric (pH Meter) method
67	CHEMICAL- WATER	Surface Water	Sulphate	APHA –23rd Edition,4500- SO_4^{2-} E.
68	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025, (Part 16) Gravimetric method