National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ENVIRONMENT LABORATORY, CMPDI, GROUND FLOOR, CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED, REGIONAL INSTITUTE-IV, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7102	**Page No**	1 of 7
Validity	29/06/2022 to 28/06/2024	**Last Amended on**	06/12/2022

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	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Arsenic as As	CPCB Guidelines for the measurement of Ambient air pollutants Volume 1
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Cadmium as Cd	USEPA Compendium Method IO 3.2
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Chromium as Cr	USEPA Compendium Method IO -3.2
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Lead as Pb	IS 5182 PART 22
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nickel as Ni	IS 5182 Part 26
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Dioxide (NO2)	IS 5182 Part-6
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate matter (PM10)	IS 5182 Part -23
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate matter (PM2.5)	USEPA Quality Assurance Guidance Document Volume-II (Part- II) - 2.12
9	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulfur dioxide (SO2)	IS 5182 Part-2
10	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Suspended particulate matter (SPM)	IS 5182 (Part 4)
11	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Ambient Noise	CPCB Protocol for Ambient noise measurement,June-2015
12	CHEMICAL- POLLUTION & ENVIRONMENT	soil parameter	pH	IS 2720 (Part-26)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Soil Sediments	Electrical Conductivity	IS 14767:2000
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Cadmium	APHA (23rd Ed.) 3111 B, AAS Flame Method
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Cadmium	APHA (23rd Ed.) 3113 B, AAS GTA Method
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Chromium	IS 3025 Part-52 Clause 6, AAS Flame Method
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Colour	IS 3025 (Part 4): 1983 Pt- Co Method

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18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Copper	IS 3025 Part-42 AAS Flame Method
19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Dissolved Phosphate	APHA (23rd Ed.) 4500 P C
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Fluoride	APHA (23rd Ed.) 4500-F D SPADNS Method
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Hexavalent Chromium	APHA (23rd Ed.) 3500-Cr B Colorimetric Method
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Iron	IS 3025 Part-53 AAS Flame Method
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Lead	APHA (23rd Ed.) 3113 B, AAS GTA Method
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Manganese	IS 3025 Part-59, AAS Flame Method
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Mercury	APHA (23rd Ed.) 3112 B, AAS Cold vapor Method
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Nickel	APHA (23rd Ed.) 3111 B AAS Flame Method
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Nickel	APHA (23rd Ed.) 3113 B AAS GTA Method
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Nitrate Nitrogen	APHA (23rd Ed.) 4500-NO3 -B UV Spectrophotometric Method
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Odour	IS 3025 Part-5
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	pH	IS 3025 Part-11 Electrometric Method
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Phenolic Compounds	APHA (23rd Ed.) 5530 D Direct Photometric Method
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Selenium	APHA (23rd Ed.) 3114 C, AAS VGA Method
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Sulphate	APHA (23rd Ed.) 4500-E Turbidimetric Method
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Sulphide	APHA (23rd Ed.) 4500-S D
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Temperature	IS 3025 Part-9
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Total Dissolved Solids	IS 3025 (Part 16) Gravimetric Method

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37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Total Kjeldahl Nitrogen	APHA 23rd Edition 4500-Norg B
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Total Residual Free Chlorine	APHA (23rd Ed.) 4500-G DPD Colorimetric Method
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Total Suspended Solids	IS 3025 Part-17 Gravimetric Method
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Turbidity	IS 3025 Part-10 Nephlometric Method
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Zinc	IS 3025 Part-49 AAS Flame Method
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Biochemical oxygen demand (BOD 3 days 27oC)	IS 3025 (Part 44)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Chemical Oxygen Demand (COD)	APHA (23rd Ed.) 5220 C Closed Reflux Method
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Disolved Oxygen	IS 3025 (Part 38) Winkler Azide Method
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Oil & Grease	IS 3025(Part 39) Partition Gravimetric Method
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Arsenic	APHA (23rd Ed.) 3114 C, AAS VGA Method
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waster water (Effluent)	Ammonical Nitrogen /Free Ammonia	IS 3025 Part-34
48	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Aluminium	APHA (23rd Ed.) 3113 B, AAS GTA Method
49	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Arsenic	APHA (23rd Ed.) 3114 C, AAS VGA Method
50	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Boron	APHA (23rd Ed.) 4500 B-C Carmine Method
51	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Cadmium	APHA (23rd Ed.) 3111 B, AAS Flame Method
52	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Cadmium	APHA (23rd Ed.) 3113 B, AAS GTA Method
53	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Chromium	IS 3025 Part-52 Clause 6, AAS Flame Method
54	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Copper	IS 3025 Part-42 AAS Flame Method
55	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Hexavalent Chromium	APHA (23rd Ed.) 3500-Cr B Colorimetric Method

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56	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Iron	IS 3025 Part-53 AAS Flame Method
57	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Lead	APHA 23rd edition 3113 B, AAS GTA method
58	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Manganese	IS 3025 Part-59, AAS Flame Method
59	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Mercury	APHA (23rd Ed.) 3112 B, AAS Cold vapor Method
60	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Nickel	APHA (23rd Ed.) 3111 B AAS Flame Method
61	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Nickel	APHA (23rd Ed.) 3113 B AAS GTA Method
62	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Selenium	APHA (23rd Ed.) 3114 C, AAS VGA Method
63	CHEMICAL- RESIDUES IN WATER	Drinking Water, Surface Water and Ground Water	Zinc	IS 3025 Part-49 AAS Flame Method
64	CHEMICAL- WATER	Drinking Water	Alkalinity	IS 3025 (Part23)
65	CHEMICAL- WATER	Drinking Water	Biochemical oxygen demand (BOD 3 days 27 degrees C)	IS 3025 (Part 44)
66	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 Part-40
67	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand (COD)	APHA (23rd Ed.) 5220 C Closed Reflux Method
68	CHEMICAL- WATER	Drinking Water	Chlorides	IS 3025 (Part 32) Argentometric Method
69	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 (Part 4) Pt- Co Method
70	CHEMICAL- WATER	Drinking Water	Conductivity	APHA (23rd Ed.) 2510 B
71	CHEMICAL- WATER	Drinking Water	Disolved Oxygen	IS 3025 (Part 38) Winkler Azide Method
72	CHEMICAL- WATER	Drinking Water	Fluoride	APHA (23rd Ed.) 4500-F D SPADNS Method
73	CHEMICAL- WATER	Drinking Water	Magnesium	APHA (23rd Ed.) 3500 B, Calculation Method
74	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 Part-5
75	CHEMICAL- WATER	Drinking Water	pH value	IS 3025 Part-11 Electrometric Method
76	CHEMICAL- WATER	Drinking Water	Phenolic Compounds	APHA (23rd Ed.) 5530 D Direct Photometric Method

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77	CHEMICAL- WATER	Drinking Water	Potassium	APHA (23rd Ed.) 3500-K B Flame Photometer Method
78	CHEMICAL- WATER	Drinking Water	Sodium	APHA (23rd Ed.) 3500-Na B Flame Photometer Method
79	CHEMICAL- WATER	Drinking Water	Sulphate	APHA (23rd Ed.) 4500-E Turbidimetric Method
80	CHEMICAL- WATER	Drinking Water	Sulphide	APHA (23rd Ed.) 4500-S D
81	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 Part-7 Taste Threshold Method
82	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16) Gravimetric Method
83	CHEMICAL- WATER	Drinking Water	Total Hardness (caco3)	IS 3025 Part-21 EDTA Method
84	CHEMICAL- WATER	Drinking Water	Total Residual Free Chlorine	APHA (23rd Ed.) 4500-G DPD Colorimetric Method
85	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 Part-17 Gravimetric Method
86	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 Part-10 Nephlometric Method
87	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025 (Part 16) :1984 Gravimetric Method
88	CHEMICAL- WATER	Ground Water	Alkalinity	IS 3025 (Part 23)
89	CHEMICAL- WATER	Ground Water	Biochemical oxygen demand (BOD 3 days 27 degree C)	IS 3025 (Part 44)
90	CHEMICAL- WATER	Ground Water	Calcium	IS 3025 Part-40, EDTA Method
91	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand (COD)	APHA (23rd Ed.) 5220 C Closed Reflux Method
92	CHEMICAL- WATER	Ground Water	Chlorides	IS 3025 (Part 32): Argentometric Method
93	CHEMICAL- WATER	Ground Water	Colour	IS 3025 (Part 4): 1983 Pt- Co Method
94	CHEMICAL- WATER	Ground Water	Conductivity	APHA (23rd Ed.) 2510 B
95	CHEMICAL- WATER	Ground Water	Dissolved oxygen	IS 3025 (Part 38) Winkler Azide Method
96	CHEMICAL- WATER	Ground Water	Fluoride	APHA (23rd Ed.) 4500-F D SPADNS Method
97	CHEMICAL- WATER	Ground water	Magnesium	APHA (23rd Ed.) 3500 B, Calculation Method

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98	CHEMICAL- WATER	Ground Water	Nitrate	APHA (23rd Ed.) 4500-NO3 -B UV Spectrophotometric Method
99	CHEMICAL- WATER	Ground Water	Odour	IS 3025 Part-5
100	CHEMICAL- WATER	Ground Water	pH	IS 3025 Part-11 Electrometric Method
101	CHEMICAL- WATER	Ground Water	Phenolic Compounds	APHA (23rd Ed.) 5530 D Direct Photometric Method
102	CHEMICAL- WATER	Ground Water	Potassium	APHA (23rd Ed.) 3500-K B Flame Photometer Method
103	CHEMICAL- WATER	Ground Water	Sodium	APHA (23rd Ed.) 3500-Na B Flame Photometer Method
104	CHEMICAL- WATER	Ground Water	Sulphate	APHA (23rd Ed.) 4500-E Turbidimetric Method
105	CHEMICAL- WATER	Ground Water	Sulphide	APHA (23rd Ed.) 4500-S D
106	CHEMICAL- WATER	Ground Water	Taste	IS 3025 Part-7 Taste Threshold Method
107	CHEMICAL- WATER	Ground Water	Total Hardness (CaCO3)	IS 3025 Part-21 :2009 EDTA Method
108	CHEMICAL- WATER	Ground Water	Total Residual Free Chlorine	APHA (23rd Ed.) 4500-G DPD Colorimetric Method
109	CHEMICAL- WATER	Ground Water	Total Suspended Solids	IS 3025 Part-17:1984 Gravimetric Method
110	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 Part-10: Nephlometric Method
111	CHEMICAL- WATER	Surface Water	Fluoride	APHA (23rd Ed.) 4500-F D SPADNS Method
112	CHEMICAL- WATER	Surface Water	Magnesium	APHA 23rd Edition 3500 B, calculation Method
113	CHEMICAL- WATER	Surface Water	Nitrate	APHA (23rd Ed.) 4500-NO3 -B UV Spectrophotometric Method
114	CHEMICAL- WATER	Surface Water	Odour	IS 3025 Part 5
115	CHEMICAL- WATER	Surface Water	pH value	IS 3025 Part-11 Electrometric Method
116	CHEMICAL- WATER	Surface Water	Phenolic Compounds	APHA (23rd Ed.) 5530 D Direct Photometric Method
117	CHEMICAL- WATER	Surface Water	Potassium	APHA (23rd Ed.) 3500-K B Flame Photometer Method

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118	CHEMICAL- WATER	Surface Water	Sodium	APHA (23rd Ed.) 3500-Na B Flame Photometer Method
119	CHEMICAL- WATER	Surface Water	Sulphate	APHA (23rd Ed.) 4500-E Turbidimetric Method
120	CHEMICAL- WATER	Surface Water	Sulphide	APHA (23rd Ed.) 4500-S D
121	CHEMICAL- WATER	Surface Water	Taste	IS 3025 Part-7 Taste Threshold Method
122	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025 (Part 16) Gravimetric Method
123	CHEMICAL- WATER	Surface Water	Total Hardness (caco3)	IS 3025 Part-21 EDTA Method
124	CHEMICAL- WATER	Surface Water	Total Residual Free Chlorine	APHA (23rd Ed.) 4500-G DPD Colorimetric Method
125	CHEMICAL- WATER	Surface Water	Total Suspended Solids	IS 3025 Part-17 Gravimetric Method
126	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 Part-10 Nephlometric Method
127	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand (COD)	APHA (23rd Ed.) 5220 C Closed Reflux Method
128	CHEMICAL- WATER	Surface Water	Disolved Oxygen	IS 3025 (Part 38) Winkler Azide Method
129	CHEMICAL- WATER	surface water	Alkalinity	IS 3025 (Part 23) Titration Method
130	CHEMICAL- WATER	Surface Water	Biochemical oxygen demand (BOD 3 days 27oC)	IS 3025 (Part 44)
131	CHEMICAL- WATER	Surface Water	Calcium	IS 3025 Part-40, EDTA Method :2014
132	CHEMICAL- WATER	Surface Water	Chlorides	IS 3025 (Part 32) Argentometric Method
133	CHEMICAL- WATER	Surface Water	Colour	IS 3025 (Part 4): 1983 Pt- Co Method
134	CHEMICAL- WATER	Surface Water	Conductivity	APHA (23rd Ed.) 2510 B