National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ENVIRONMENT LABORATORY, CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED, GONDWANA PLACE, KANKE ROAD, RANCHI, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 16/12/2022 to 15/12/2024 **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	Oxides of nitrogen (NOX)	IS 5182 (Part – 6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM2.5	USEPA Quality Assurance Guidance Document Volume-II (Part- II) - 2.12
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Respirable particulate matter (PM10)	IS 5182 (Part -23)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulfur dioxide (SO2)	IS 5182 (Part-2)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Level	Noise Level (Leq)	CMPDI/RN/LSOP 06: July
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ammonia	Ammonia	IS 5182 (Part XXV):
7	CHEMICAL- ATMOSPHERIC POLLUTION	Carbon Monoxide (CO)	Carbon Monoxide (CO)	IS 5182 (Part X)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Meterological parameter	Rain fall	CMPDI/RN/LSOP04 Issue No.-02:01:07
9	CHEMICAL- ATMOSPHERIC POLLUTION	Meterological parameter	Relative humidity	CMPDI/RN/LSOP04 Issue No.-02:01:07:
10	CHEMICAL- ATMOSPHERIC POLLUTION	Meterological parameter	Temperature	CMPDI/RN/LSOP04 Issue No.-02:01:07
11	CHEMICAL- ATMOSPHERIC POLLUTION	Meterological parameter	Wind speed	CMPDI/RN/LSOP04 Issue No.-02:01:07
12	CHEMICAL- ATMOSPHERIC POLLUTION	Ozone	Ozone	IS 5182 (Part IX):
13	CHEMICAL- ATMOSPHERIC POLLUTION	Particulate Matter	Arsenic	USEPA IO-3.2
14	CHEMICAL- ATMOSPHERIC POLLUTION	Particulate Matter	Cadmium	USEPA IO-3.2
15	CHEMICAL- ATMOSPHERIC POLLUTION	Particulate Matter	Chromium	USEPA IO-3.2
16	CHEMICAL- ATMOSPHERIC POLLUTION	Particulate Matter	Copper	USEPA IO-3.2
17	CHEMICAL- ATMOSPHERIC POLLUTION	Particulate Matter	Lead	USEPA IO-3.2
18	CHEMICAL- ATMOSPHERIC POLLUTION	Particulate Matter	Nickel	USEPA IO-3.2

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Fluoride	APHA(23rd Edition), 4500 FD, SPANDS Method
20	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Ammonical Nitrogen / Free Ammonia	IS 3025(Part 34): Nessler's Method
21	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Arsenic	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
22	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Arsenic	IS 3025(Part 37): AAS-VGA Method
23	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	B.O.D (3 days 27oC)	IS 3025 (Part 44)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Boron	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
25	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Boron	APHA (23rd Edition) [Method: 4500 B-C: Carmine Method]
26	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Cadmium	APHA (23rd Edition) [Method: 3120 B (ICP Method)] & AAS-GTA Method
27	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Cadmium	APHA (23rd Edition) Method: 3111 B AAS-GTA Method
28	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	COD	APHA(23rd Edition), 5220 C ,Closed Reflux, Titrimetric Method
29	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Colour	APHA (23rd Edition), 2120 B Platinum Cobalt Method
30	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Dissolved Phosphate, as PO4-3	APHA (23rd Edition),4500 PD, Molybdovanadate Method
31	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Hexavalent Chromium	APHA(23rd Edition), 1,5-Diphenylcarbohydrazide Method
32	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Lead	APHA (23rd Edition) [Method: 3120 B (ICP Method)] & AAS-GTA Method
33	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Nitrate Nitrogen	APHA (23rd Edition), 4500 B,UV-Spectrophotometric Method
34	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Odour	IS 3025 (Part 5)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Oil & Grease	IS 3025(Part 39): Partition Gravimetric Method

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36	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	pH value	IS 3025(Part11): Electrometric Method
37	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Phenolic Compounds	APHA(23rd Edition), 5530 C, 4-Amino antipyrine Method
38	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Sulphide	APHA (23rd Edition),4500 D, Methylene Blue Method
39	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Temperature	IS 3025 (Part 9): Thermometric
40	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Total Dissolved Solids	IS 3025 (Part 16)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Total Kjeldahl Nitrogen	APHA (23rd Edition), 4500 B, Kjeldahl Method
42	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Total Residual Chlorine	APHA (23rd Edition), 4500 G, DPD Method
43	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Total Suspended Solids	IS 3025 (Part 17) Gravimetric Method
44	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Cadmium	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
45	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Copper	APHA (23rd Edition) [Method: 3120 B (ICP Method)
46	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Copper	IS 3025 (Part 42) AAS-Flame
47	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Iron	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
48	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Iron	IS 3025 (Part 53): AAS-Flame Method
49	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Lead	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
50	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Lead	APHA (23rd Edition) [Method: 3120 B (ICP Method)] & AAS-GTA – 3113 B Method
51	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Manganese	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
52	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Manganese	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
53	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Nickel	APHA (23rd Edition) [Method: 3120 B (ICP Method)

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54	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Nickel	IS 3025 (Part 54) : 2003, AAS-Flame Method
55	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Selenium	APHA (23rd Edition) [Method: 3120 B (ICP Method)
56	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Selenium	IS 3025(Part 56): AAS-VGA Method
57	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Zinc	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
58	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents	Zinc	IS 3025 (Part 49) , AAS-Flame Method
59	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Arsenic	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
60	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Arsenic	IS 3025(Part 37) AAS-VGA Method
61	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Boron	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
62	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Boron	APHA (23rd Edition) Method: 4500 B-C :Carmine Method
63	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Cadmium	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
64	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Cadmium	APHA (23rd Edition) 3111 B-AAS-GTA Method
65	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Copper	APHA (23rd Edition) [Method: 3120 B (ICP Method)
66	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Copper	IS 3025 (Part 42) , AAS-Flame
67	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Iron	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
68	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Iron	IS 3025 (Part 53) , AAS-Flame Method
69	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Lead	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
70	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Lead	APHA (23rd Edition) Method: 3113 B: AAS-GTA Method
71	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Manganese	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
72	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Manganese	IS 3025 (Part 59) AAS-Flame Method

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73	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Nickel	APHA (23rd Edition) [Method: 3120 B (ICP Method)
74	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Nickel	IS 3025 (Part 54) : 2003, AAS-Flame Method
75	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Selenium	APHA (23rd Edition) Yr.: [Method: 3120 B (ICP Method)
76	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Selenium	IS 3025(Part 56), AAS-VGA Method
77	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Total Chromium	IS 3025 (Part 52) : 2003 AAS-Flame
78	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Total Chromium	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
79	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Total Hexavalent Chromium	APHA(23rd Edition), 3500 Cr-1,5-Diphenylcarbohydrazide Method
80	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Zinc	APHA (23rd Edition) [Method: 3120 B (ICP Method)]
81	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Zinc	IS 3025 (Part 49), AAS-Flame Method
82	CHEMICAL- SOIL AND ROCK	Soil	Available Nitrogen	IS 14684, CMPDI/RN/LSOP07 Issue No.-02:01.07.2022
83	CHEMICAL- SOIL AND ROCK	Soil	Available Phosphorous as P2O5	IS: 3025 (Part 31), CMPDI/RN/LSOP07 Issue No.-02:01.07.2022
84	CHEMICAL- SOIL AND ROCK	Soil	Calcium (Exchangeable)	CMPDI/RN/LSOP07 Issue No.-02:01.07.2022
85	CHEMICAL- SOIL AND ROCK	Soil	Cation Exchange Capacity(CEC)	CMPDI/RN/LSOP07 Issue No.-02:01.07.2022
86	CHEMICAL- SOIL AND ROCK	Soil	Conductivity	IS 14767
87	CHEMICAL- SOIL AND ROCK	Soil	Magnesium (Exchangeable)	CMPDI/RN/LSOP07 Issue No.-02:01.07.2022
88	CHEMICAL- SOIL AND ROCK	Soil	Moisture	IS 2720 (Part 2)
89	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	IS 2720 (Part 2720)
90	CHEMICAL- SOIL AND ROCK	Soil	pH	IS 2720 (Part 26)

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91	CHEMICAL- SOIL AND ROCK	Soil	Potassium (Exchangeable)	CMPDI/RN/LSOP07 Issue No.-02:01.07.2022
92	CHEMICAL- SOIL AND ROCK	Soil	Sodium (Exchangeable)	CMPDI/RN/LSOP07 Issue No.-02:01.07.2022
93	CHEMICAL- SOIL AND ROCK	Soil	Sodium Absorption Ratio (SAR)	CMPDI/RN/LSOP07 Issue No.-02:01.07.2022 Issue No.-02:01.07.2022
94	CHEMICAL- SOIL AND ROCK	Soil	Soil Texture	CMPDI/RN/LSOP07 Issue No.-02:01.07.2022 Issue No.-02:01.07.2022
95	CHEMICAL- SOIL AND ROCK	Soil	Total Kjeldhal Nitrogen	IS 14684, CMPDI/RN/LSOP07 Issue No.-02:01.07.2022
96	CHEMICAL- WATER	Drinking Water	Alkalinity	IS 3025(Part 23) Titration Method
97	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 (Part 40): EDTA Method
98	CHEMICAL- WATER	Drinking Water	Chlorides	IS 3025(Part 32): Argentometric Method
99	CHEMICAL- WATER	Drinking Water	Colour	APHA (23rd Edition), 2120 B Platinum Cobalt Method
100	CHEMICAL- WATER	Drinking Water	Fluoride	APHA(23rd Edition), 4500 FD, SPANDS Method
101	CHEMICAL- WATER	Drinking Water	Magnesium	IS 3025 (Part 46) & APHA (23rd Ed.) 3500 B, Calculation Method
102	CHEMICAL- WATER	Drinking Water	Nitrate	APHA (23rd Edition), 4500 B,UV-Spectrophotometric Method
103	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5)
104	CHEMICAL- WATER	Drinking Water	pH value	IS 3025 (Part 11): Electrometric Method
105	CHEMICAL- WATER	Drinking Water	Phenolic	APHA(23rd Edition), 5530 C, 4-Amino antipyrine Method
106	CHEMICAL- WATER	Drinking Water	Sulphate	APHA (23rd Edition), 4500 E, Turbidity Method
107	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16): Gravimetric Method
108	CHEMICAL- WATER	Drinking Water	Total Free Residual Chlorine	APHA (23rd Edition), 4500 G, DPD Method

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109	CHEMICAL- WATER	Drinking Water	Total Hardness (CaCO3)	IS 3025 (Part 21): EDTA Method
110	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10) Nephelometric Method
111	CHEMICAL- WATER	surface water	Fluoride	APHA(23rd Edition), 4500 FD, SPANDS Method
112	CHEMICAL- WATER	Surface water	Nitrate	APHA (23rd Edition), 4500 B,UV-Spectrophotometric Method
113	CHEMICAL- WATER	surface water	pH value	IS 3025 (Part 11): Electrometric Method
114	CHEMICAL- WATER	Surface Water	BOD (3 days 27°C)	IS 3025 (Part 44)
115	CHEMICAL- WATER	surface water	Chlorides	IS 3025(Part 32): Argentometric Method
116	CHEMICAL- WATER	Surface water	Colour	APHA (23rd Edition), 2120 B ,Platinum Cobalt Method
117	CHEMICAL- WATER	surface water	Dissolved Oxygen	IS 3025 (Part 38): Winkler Azide Method
118	CHEMICAL- WATER	surface water	Phenolic	APHA(23rd Edition), 5530 C, 4-Amino antipyrine Method
119	CHEMICAL- WATER	Surface water	Sulphate	APHA (23rd Edition),4500 E,Turbidity Method
120	CHEMICAL- WATER	surface water	Total Dissolved Solids	IS 3025 (Part 16): Gravimetric Method
121	CHEMICAL- WATER	surface water	Total Suspended Solids	IS 3025 (Part 17): Gravimetric Method