



**National Accreditation Board for  
Testing and Calibration Laboratories**

**CERTIFICATE OF ACCREDITATION**

**ENVIRONMENT LABORATORY, CENTRAL MINE  
PLANNING AND DESIGN INSTITUTE LIMITED**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

**GONDWANA PLACE, KANKE ROAD, RANCHI, JHARKHAND, INDIA**

in the field of

**TESTING**

Certificate Number: **TC-15740**

Issue Date: **25/03/2025**

Valid Until: **24/03/2029**

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued  
satisfactory compliance to the above standard & the relevant requirements of NABL.  
(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Entity: **CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD.**

**Signed for and on behalf of NABL**



  
Anuja Anand  
Director

  
N. Venkateswaran  
Chief Executive Officer



# 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

**Certificate Number** TC-15740

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**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 Testing				
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	Noise Level (Leq)	CMPDI/RN/LSOP04 Issue No.-03:01:10:
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	Meteorological parameter	Rain fall	CMPDI/RN/LSOP04 Issue No.-03:01:10
9	CHEMICAL-ATMOSPHERIC POLLUTION	Meteorological parameter	Relative humidity	CMPDI/RN/LSOP04 Issue No.-03:01:10:
10	CHEMICAL-ATMOSPHERIC POLLUTION	Meteorological parameter	Temperature	CMPDI/RN/LSOP04 Issue No.-03:01:10:
11	CHEMICAL-ATMOSPHERIC POLLUTION	Meteorological parameter	Wind speed	CMPDI/RN/LSOP04 Issue No.-03:01:10:



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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
19	CHEMICAL-ATMOSPHERIC POLLUTION	Wind Direction	Wind Direction	CMPDI/RN/LSOP04Issue No-03:01:10
20	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Fluoride	APHA(24th Edition), 4500 FD, SPANDS Method
21	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Ammonical Nitrogen / Free Ammonia	IS 3025(Part 34): Nessler's Method
22	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Arsenic	APHA (24th Edition) [Method: 3120 B (ICP Method)]
23	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Arsenic	IS 3025(Part 37): AAS-VGA Method



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24	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	B.O.D (3 days 27oC)	IS 3025 (Part 44)
25	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Boron	APHA (24th Edition) [Method: 3120 B (ICP Method)]
26	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Boron	APHA (24th Edition) [Method: 4500 B-C: Carmine Method]
27	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Cadmium	APHA (24th Edition) Method: 3111 B AAS-GTA Method
28	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	COD	APHA(24th Edition), 5220 C ,Closed Reflux, Titrimetric Method
29	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Colour	APHA (24th Edition), 2120 B Platinum Cobalt Method
30	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Dissolved Phosphate, as PO4-3	APHA (24th Edition),4500 PD, Molybdoavanadate Method
31	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Dissolved Phosphate-PO4	APHA(24th Edition), 4110, Determination of Anion by Ion Chromatography
32	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Hexavalent Chromium	APHA(24th Edition), 1,5-Diphenylcarbohydrazide Method
33	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Nitrate Nitrogen	APHA (24th 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(24th Edition), 5530 C, 4-Amino antipyrine Method
38	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Sulphide	APHA (24th 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)Gravimetric Method
41	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Total Kjeldahl Nitrogen	APHA (24th Edition), 4500 B, Kjeldahl Method
42	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent	Total Residual Chlorine	APHA (24th 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 (24th Edition) [Method: 3120 B (ICP Method)]
45	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Copper	APHA (24th Edition) [Method: 3120 B (ICP Method)]
46	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Copper	IS 3025 (Part 42) AAS-Flame
47	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Fluorides	APHA(24th Edition), 4110, Determination of Anion by Ion Chromatography



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48	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Iron	APHA (24th Edition) [Method: 3120 B (ICP Method)]
49	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Iron	IS 3025 (Part 53): AAS-Flame Method
50	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Lead	APHA (24th Edition) [Method: 3120 B (ICP Method)]
51	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Lead	APHA (24th Edition), 3113 B (AAS-GTA Method)
52	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Manganese	APHA (24th Edition) [Method: 3120 B (ICP Method)]
53	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Manganese	IS 3025 (Part 59) AAS-Flame Method
54	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Nickel	APHA (24th Edition) [Method: 3120 B (ICP Method)]
55	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Nickel	IS 3025 (Part 54) : 2003, AAS-Flame Method
56	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Nitrate-Nitrogen	APHA(24th Edition), 4110, Determination of Anion by Ion Chromatography
57	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Selenium	APHA (24th Edition) [Method: 3120 B (ICP Method)]
58	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Selenium	IS 3025(Part 56): AAS-VGA Method
59	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Total Chromium	APHA(24th Edition), Method 3120 B, ICP Method



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60	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Total Chromium	IS 3025 (Part 52), AAS-Flame
61	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Zinc	APHA (24th Edition) [Method: 3120 B (ICP Method)]
62	CHEMICAL-POLLUTION & ENVIRONMENT	Effluents	Zinc	IS 3025 ( Part 49 ) , AAS-Flame Method
63	CHEMICAL-POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	BIO-ASSAY TEST (90% survival of fish after 96 hours in 100 % effluent)	IS : 6582(Part 2)
64	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium	APHA (24th Edition) Method: 3111 B: AAS (Air-Acetylene Method)
65	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium	APHA (24th Edition) Method: 3120 B: ICP Method
66	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium	APHA (24th Edition) Method: 3111 B: AAS (Air-Acetylene Method)
67	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium	APHA (24th Edition) Method: 3120 B: ICP Method
68	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Arsenic	APHA (24th Edition) [Method: 3120 B (ICP Method)]
69	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Arsenic	IS 3025(Part 37) AAS-VGA Method
70	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Boron	APHA (24th Edition) [Method: 3120 B (ICP Method)]
71	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Boron	APHA (24th Edition) Method: 4500 B-C :Carmine Method



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72	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Cadmium	APHA (24th Edition) [Method: 3120 B (ICP Method)]
73	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Cadmium	APHA (24th Edition) 3111 B- AAS-GTA Method
74	CHEMICAL- RESIDUES IN WATER	Ground Water/Drinking Water/Surface Water	Calcium	IS 3025 ( Part 40 ) EDTA Method
75	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Copper	APHA (24th Edition) [Method: 3120 B (ICP Method)]
76	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Copper	IS 3025 (Part 42) , AAS-Flame
77	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Hexavalent Chromium	APHA(24th Edition), 3500 Cr- 1,5- Diphenylcarbohydrazide Method
78	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Iron	APHA (24th Edition) [Method: 3120 B (ICP Method)]
79	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Iron	IS 3025 (Part 53) , AAS-Flame Method
80	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Lead	APHA (24th Edition) [Method: 3120 B (ICP Method)]
81	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Lead	APHA (24th Edition) Method: 3113 B: AAS-GTA Method
82	CHEMICAL- RESIDUES IN WATER	Ground Water/Drinking Water/Surface Water	Magnesium	IS 3025 (Part 46): 1994 ,APHA (24th Ed.) 3500 B, Calculation Method
83	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Manganese	APHA (24th Edition) [Method: 3120 B (ICP Method)]
84	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Manganese	IS 3025 (Part 59) AAS-Flame Method



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85	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Nickel	APHA (24th Edition) [Method: 3120 B (ICP Method)
86	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Nickel	IS 3025 (Part 54) : 2003, AAS-Flame Method
87	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Potassium	APHA(24th Edition), 3111 B, AAS
88	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Potassium	APHA(24th Edition)Method 3120B,ICP
89	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Selenium	APHA (24th Edition) Yr.: [Method: 3120 B (ICP Method)
90	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Selenium	IS 3025(Part 56), AAS-VGA Method
91	CHEMICAL- RESIDUES IN WATER	Ground Water/Drinking Water/Surface Water	Sodium	APHA(24th Edition)Method 3111B,AAS(Air-Acetylene)
92	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Sodium	APHA(24th Edition)Method 3120B,ICP
93	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Total Chromium	IS 3025 (Part 52) : 2003 AAS-Flame
94	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Total Chromium	APHA (24th Edition) [Method: 3120 B (ICP Method)]
95	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Zinc	APHA (24th Edition) [Method: 3120 B (ICP Method)]
96	CHEMICAL- RESIDUES IN WATER	Ground water/Drinking water/Surface water	Zinc	IS 3025 ( Part 49 ), AAS-Flame Method
97	CHEMICAL- SOIL AND ROCK	Sediments, Sludges, and Soil	Total Chromium	EPA 3050B - 2 (Revision 2)
98	CHEMICAL- SOIL AND ROCK	Sediments, Sludges, and Soil	Total Manganese	EPA 3050B - 2 (Revision 2)



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99	CHEMICAL- SOIL AND ROCK	Sediments, Sludges, and soil	Total Nickel	EPA 3050B - 2 (Revision 2)
100	CHEMICAL- SOIL AND ROCK	Sediments, Sludges, and soil	Total Zinc	EPA 3050B - 2 (Revision 2)
101	CHEMICAL- SOIL AND ROCK	Sediments, Sludges, and soil Samples	Total Cadmium	EPA 3050B - 2 (Revision 2)
102	CHEMICAL- SOIL AND ROCK	Sediments, Sludges, and Soil samples	Total Copper	EPA 3050B - 2 (Revision 2)
103	CHEMICAL- SOIL AND ROCK	Sediments, Sludges, and soil Samples	Total Iron	EPA 3050B - 2 (Revision 2)
104	CHEMICAL- SOIL AND ROCK	Sediments, Sludges, and soil Samples	Total Lead	EPA 3050B - 2 (Revision 2)
105	CHEMICAL- SOIL AND ROCK	Soil	Available Copper	CMPDI/RN/LSOP07 Issue No.-03:01:10:
106	CHEMICAL- SOIL AND ROCK	Soil	Available Iron	CMPDI/RN/LSOP07 Issue No.-03:01:10:
107	CHEMICAL- SOIL AND ROCK	Soil	Available Manganese	CMPDI/RN/LSOP07 Issue No.-03:01:10:
108	CHEMICAL- SOIL AND ROCK	Soil	Available Nitrogen	IS 14684, CMPDI/RN/LSOP07 Issue No.-03:01:10
109	CHEMICAL- SOIL AND ROCK	Soil	Available Phosphorous as P2O5	IS: 3025 (Part 31), CMPDI/RN/LSOP07 Issue No.-03:01:10
110	CHEMICAL- SOIL AND ROCK	Soil	Available Sulphur as S	CMPDI/RN/LSOP07 Issue No.-03:01:10:
111	CHEMICAL- SOIL AND ROCK	Soil	Available Zinc	CMPDI/RN/LSOP07 Issue No.-03:01:10:
112	CHEMICAL- SOIL AND ROCK	Soil	Bulk Density	CMPDI/RN/LSOP07 Issue No.-03:01:10
113	CHEMICAL- SOIL AND ROCK	Soil	Calcium (Exchangeable)	CMPDI/RN/LSOP07 Issue No.-03:01:10
114	CHEMICAL- SOIL AND ROCK	Soil	Cation Exchange Capacity(CEC)	CMPDI/RN/LSOP07 Issue No.-03:01:10



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115	CHEMICAL- SOIL AND ROCK	Soil	Conductivity	IS 14767
116	CHEMICAL- SOIL AND ROCK	Soil	Magnesium (Exchangeable)	CMPDI/RN/LSOP07 Issue No.-03:01:10
117	CHEMICAL- SOIL AND ROCK	Soil	Moisture	IS 2720 (Part 2)
118	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	IS 2720 (Part 22)
119	CHEMICAL- SOIL AND ROCK	Soil	pH	IS 2720 (Part 26)
120	CHEMICAL- SOIL AND ROCK	Soil	Potassium (Exchangeable)	CMPDI/RN/LSOP07 Issue No.-03:01:10
121	CHEMICAL- SOIL AND ROCK	Soil	Sodium (Exchangeable)	CMPDI/RN/LSOP07 Issue No.-03:01:10
122	CHEMICAL- SOIL AND ROCK	Soil	Sodium Absorption Ratio (SAR)	CMPDI/RN/LSOP07 Issue No.-03:01:10
123	CHEMICAL- SOIL AND ROCK	Soil	Soil Porosity	CMPDI/RN/LSOP07 Issue No.-03:01:10
124	CHEMICAL- SOIL AND ROCK	Soil	Soil Texture	CMPDI/RN/LSOP07 Issue No.-03:01:10
125	CHEMICAL- SOIL AND ROCK	Soil	Specific Gravity of Soils	IS: 2720 (Part III/See 2)
126	CHEMICAL- SOIL AND ROCK	Soil	Total Kjeldhal Nitrogen	CMPDI/RN/LSOP07 Issue No.-03:01:10
127	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 (Part 40): EDTA Method
128	CHEMICAL- WATER	Drinking Water	Chlorides	APHA(24th Edition), 4110, Determination of Anion by Ion Chromatography
129	CHEMICAL- WATER	Drinking Water	Chlorides	IS 3025(Part 32): Argentometric Method
130	CHEMICAL- WATER	Drinking Water	Colour	APHA (24th Edition), 2120 B Platinum Cobalt Method



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131	CHEMICAL- WATER	Drinking Water	Fluoride	APHA(24th Edition), 4500 FD, SPANDS Method
132	CHEMICAL- WATER	Drinking Water	Fluorides	APHA(24th Edition), 4110, Determination of Anion by Ion Chromatography
133	CHEMICAL- WATER	Drinking Water	Manganese	IS3025(PART46):1994, AP HA(24th)3500B
134	CHEMICAL- WATER	Drinking Water	Nitrate	APHA (24th Edition), 4500 B,UV-Spectrophotometric Method
135	CHEMICAL- WATER	Drinking Water	Nitrate	APHA(24th Edition), 4110, Determination of Anion by Ion Chromatography
136	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5)
137	CHEMICAL- WATER	Drinking Water	pH value	IS 3025 (Part 11): Electrometric Method
138	CHEMICAL- WATER	Drinking Water	Phenolic	APHA(24th Edition), 5530 C, 4-Amino antipyrine Method
139	CHEMICAL- WATER	Drinking Water	Potassium	APHA (24th Edition) Method: 3111 B: AAS (Air-Acetylene Method)
140	CHEMICAL- WATER	Drinking Water	Potassium	APHA (24th Edition) Method: 3120 B: ICP Method
141	CHEMICAL- WATER	Drinking Water	Sodium	APHA (24th Edition) Method: 3111 B: AAS (Air-Acetylene Method)
142	CHEMICAL- WATER	Drinking Water	Sodium	APHA (24th Edition) Method: 3120 B: ICP Method
143	CHEMICAL- WATER	Drinking Water	Sulphate	APHA (24th Edition), 4500 E, Turbidity Method



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	ENVIRONMENT LABORATORY, CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED, GONDWANA PLACE, KANKE ROAD, RANCHI, JHARKHAND, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-15740	<b>Page No</b>	12 of 13
<b>Validity</b>	25/03/2025 to 24/03/2029	<b>Last Amended on</b>	-

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
144	CHEMICAL- WATER	Drinking Water	Sulphate	APHA(24th Edition), 4110, Determination of Anion by Ion Chromatography
145	CHEMICAL- WATER	Drinking Water	Total Alkalinity	IS 3025(Part 23) Titration Method
146	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16): Gravimetric Method
147	CHEMICAL- WATER	Drinking Water	Total Hardness (CaCO <sub>3</sub> )	IS 3025 (Part 21): EDTA Method
148	CHEMICAL- WATER	Drinking Water	Total Residual Free Chlorine	APHA (24th Edition), 4500 G, DPD Method
149	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10) Nephelometric Method
150	CHEMICAL- WATER	Sulphate	Sulphate	APHA(24th Edition), 4110, Determination of Anion by Ion Chromatography
151	CHEMICAL- WATER	surface water	Fluoride	APHA(24th Edition), 4500 FD, SPANDS Method
152	CHEMICAL- WATER	Surface water	Nitrate	APHA (24th Edition), 4500 B,UV-Spectrophotometric Method
153	CHEMICAL- WATER	surface water	pH value	IS 3025 (Part 11): Electrometric Method
154	CHEMICAL- WATER	Surface Water	BOD (3 days 27°C)	IS 3025 (Part 44)
155	CHEMICAL- WATER	Surface Water	Calcium	IS 3025 ( Part 40 ) EDTA Method
156	CHEMICAL- WATER	Surface Water	Chlorides	APHA(24th Edition), 4110, Determination of Anion by Ion Chromatography
157	CHEMICAL- WATER	surface water	Chlorides	IS 3025(Part 32): Argentometric Method
158	CHEMICAL- WATER	Surface water	Colour	APHA (24th Edition), 2120 B ,Platinum Cobalt Method



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<b>Certificate Number</b>	TC-15740	<b>Page No</b>	13 of 13
<b>Validity</b>	25/03/2025 to 24/03/2029	<b>Last Amended on</b>	-

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
159	CHEMICAL- WATER	surface water	Dissolved Oxygen	IS 3025 (Part 38): Winkler Azide Method
160	CHEMICAL- WATER	Surface Water	Fluoride	APHA(24th Edition)4110.Determination of anion by Ion Chromatography
161	CHEMICAL- WATER	Surface Water	Magnesium	IS 3025 (Part 46): 1994 ,APHA (24th Ed.) 3500 B, Calculation Method
162	CHEMICAL- WATER	Surface Water	Nitrate	APHA(24th)4110,determination of anion by ION Chromatography
163	CHEMICAL- WATER	surface water	Phenolic	APHA(24th Edition), 5530 C, 4-Amino antipyrine Method
164	CHEMICAL- WATER	Surface Water	Potassium	APHA (24th Edition) Method: 3111 B: AAS (Air-Acetylene Method)
165	CHEMICAL- WATER	Surface Water	Potassium	APHA (24th Edition) Method: 3120 B: ICP Method
166	CHEMICAL- WATER	Surface Water	Sodium	APHA (24th Edition) Method: 3111 B: AAS (Air-Acetylene Method)
167	CHEMICAL- WATER	Surface Water	Sodium	APHA (24th Edition) Method: 3120 B: ICP Method
168	CHEMICAL- WATER	Surface water	Sulphate	APHA (24th Edition),4500 E,Turbidity Method
169	CHEMICAL- WATER	surface water	Total Dissolved Solids	IS 3025 (Part 16): Gravimetric Method
170	CHEMICAL- WATER	surface water	Total Suspended Solids	IS 3025 (Part 17): Gravimetric Method