National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : REGIONAL ENVIRONMENT AND CHEMICAL LABORATORY, REGIONAL INSTITUTE VII,CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED, BHUBANESWAR, KHORDHA, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7052 **Page No** 1 of 4

Validity 22/03/2022 to 21/03/2024 **Last Amended on** 25/03/2022

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	Nitrogen Oxides	IS 5182 : Part 6
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter 10	IS 5182 Part-23
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter 2.5	IS 5182 : Part 24
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulfur Dioxide	IS 5182: Part 2
5	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Ammonical Nitrogen as N	APHA 4500 NH3 – A,B,F
6	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Lead	APHA 3113 -A,B
7	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Manganese	APHA 3111 A, B.
8	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Odour	IS 3025 Part 05
9	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Oil & Grease	IS 3025 Part 39
10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	pH	APHA 4500 H+ B
11	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Total Chromium	APHA 3113- A,B
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Chemical Oxygen Demand (COD)	APHA 5220 -A,B,C
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Arsenic	APHA 3114 -A,C
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Copper	APHA 3111-A, B
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Dissolved Phosphate	APHA 4500 P-A, C
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Fluoride	APHA 4500 F-A, D
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Hexavalent Chromium	APHA 3500 Cr-A, B.
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Iron	APHA 3111-A,B

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Certificate Number TC-7052 **Page No** 2 of 4

Validity 22/03/2022 to 21/03/2024 **Last Amended on** 25/03/2022

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Nickel	APHA 3113-A, B.
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Nitrate Nitrogen	APHA 4500 NO3-A,B
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Sulphide	APHA 4500 S2- A, D
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Total Kjeldahl Nitrogen	APHA 4500 N org C
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Total Suspended Solids	IS 3025 Part 17
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Zinc	APHA 3111-A,B
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Ammonical Nitrogen as N	APHA 4500 NH3 –A,B,C
26	CHEMICAL- POLLUTION & ENVIRONMENT	waste Water (Effluent/Sewage)	Biochemical Oxygen Demand (3 Days@ 27°C)	IS 3025 Part 44
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Cadmium	APHA 3113-A,B
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Colour	APHA 2120-A, C
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Selenium	APHA 3114 A,C
30	CHEMICAL- RESIDUES IN WATER	Drinking Water	Total Chromium	APHA 3113- A, B
31	CHEMICAL- RESIDUES IN WATER	Drinking Water	Arsenic	APHA 3114 -A,C
32	CHEMICAL- RESIDUES IN WATER	Drinking Water	Cadmium	APHA 3113-A,B
33	CHEMICAL- RESIDUES IN WATER	Drinking Water	Copper	APHA 3111-A, B
34	CHEMICAL- RESIDUES IN WATER	Drinking Water	Iron	APHA 3111 - A, B
35	CHEMICAL- RESIDUES IN WATER	Drinking Water	Lead	APHA 3113 -A,B
36	CHEMICAL- RESIDUES IN WATER	Drinking Water	Manganese	APHA 3111 A, B
37	CHEMICAL- RESIDUES IN WATER	Drinking Water	Selenium	APHA 3114 -A, C

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Certificate Number TC-7052 **Page No** 3 of 4

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38	CHEMICAL- RESIDUES IN WATER	Drinking Water	Zinc	APHA 3111-A,B
39	CHEMICAL- SOLID FUELS	COAL	Ash	ASTM D 7582
40	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 Part I
41	CHEMICAL- SOLID FUELS	COAL	Gross Calorific Value	ASTM D 5865/D 5865 M-19
42	CHEMICAL- SOLID FUELS	Coal	Moisture	ASTM D 7582
43	CHEMICAL- SOLID FUELS	Coal	Moisture	IS 1350 Part I
44	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	ASTM D 7582
45	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	IS 1350 Part I
46	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025 Part -16
47	CHEMICAL- WATER	Drinking Water	Boron	APHA 4500 B- A, B
48	CHEMICAL- WATER	Drinking Water	Boron	APHA 4500 B-A,C
49	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 Part 40
50	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 Part 17
51	CHEMICAL- WATER	Drinking Water	Colour	APHA 2120-A, C
52	CHEMICAL- WATER	Drinking Water	Fluoride	APHA 4500 F-A, D
53	CHEMICAL- WATER	Drinking Water	Nitrate	APHA 4500 NO3 -A,B
54	CHEMICAL- WATER	Drinking Water	pH	IS 3025 Part 11
55	CHEMICAL- WATER	Drinking Water	Sulphate	APHA 4500 SO4 2-A, E
56	CHEMICAL- WATER	Drinking Water	Total Alkalinity (as CaCO3)	IS 3025 Part 23
57	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 Part -16
58	CHEMICAL- WATER	Drinking Water	Total Hardness (as CaCO3)	IS 3025 Part 21
59	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 Part 10
60	CHEMICAL- WATER	Surface Water	Arsenic	APHA 3114-A,C
61	CHEMICAL- WATER	Surface Water	Biochemical Oxygen Demand (3 Days@ 27°C)	IS 3025 Part 44
62	CHEMICAL- WATER	Surface Water	Cadmium	APHA 3113- A,B
63	CHEMICAL- WATER	Surface Water	Chloride	IS 3025 Part 32
64	CHEMICAL- WATER	Surface Water	Colour	APHA 2120 -A,C
65	CHEMICAL- WATER	Surface Water	Copper	APHA 3111-A, B
66	CHEMICAL- WATER	Surface Water	Fluoride	APHA 4500 –F- -A,D

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Certificate Number TC-7052 **Page No** 4 of 4

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67	CHEMICAL- WATER	Surface Water	Hexavalent Chromium	APHA 3500- Cr-A,B
68	CHEMICAL- WATER	Surface Water	Iron	APHA 3111 -A,B
69	CHEMICAL- WATER	Surface Water	Lead	APHA 3113 -A,B
70	CHEMICAL- WATER	Surface Water	Nitrate	APHA 4500 NO3 -A,B
71	CHEMICAL- WATER	Surface Water	Oil & Grease	IS 3025 Part 39
72	CHEMICAL- WATER	Surface Water	pH	IS 3025 part 11
73	CHEMICAL- WATER	Surface Water	Selenium	APHA 3114 A,C
74	CHEMICAL- WATER	Surface Water	Sulphate	APHA 4500 SO4 2- A,E
75	CHEMICAL- WATER	Surface Water	Total Hardness	IS 3025 Part 21
76	CHEMICAL- WATER	Surface Water	Total Suspended Solids	IS 3025 Part 17
77	CHEMICAL- WATER	Surface Water	Zinc	APHA 3111-A,B