National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TATA STEEL LIMITED JAMSHEDPUR EMD LAB, TATA STEEL LIMITED JAMSHEDPUR , ENVIRONMENT MANAGEMENT DEPARTMENT, ROOM NO. 212, 2ND FLOOR, FMD BUILDING, EAST SINGHBUM, JAMSHEDPUR, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 21/02/2022 to 20/02/2024 **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	Ammonia	CPCB Manual (NAAQMS/36/2012-13)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Lead as Pb	IS 5182 (PART 22)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nickel as Ni	USEPA Method IO 3.4
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Dioxide (as NO2)	IS 5182 (Part 6)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone (as O3)	IS 5182 (Part 9)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter 10	IS 5182(Part 23) : 2006 Reaffirmed 2017
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter 2.5	IS 5182 (PART 24)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (as SO2)	IS 5182 (Part 2)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Zinc as Zn	USEPA Method IO3.4
10	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Level (Excluding Vibration)	Leq, Lmin, Lmax, SPL	IS 9989
11	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxides of Nitrogen (as NO2)	IS 11255 (Part 7)
12	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter	IS 11255 (Part 1)
13	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide (as SO2)	IS 11255 (Part 2)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Acidity as CaCO3	APHA 23rd Edition 2310 B
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Biological Oxygen Demand 3 Days @ 27°C	IS 3025 (Part 44)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium as Ca	APHA 23rd Edition 3500 Ca B
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand	APHA 23rd Edition 5220 D
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chlorides as Cl-	APHA 23rd Edition 4500 Cl- B

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chlorine (Residual) as Cl	APHA 23rd Edition 4500 Cl B
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cyanide	APHA 23rd Edition 4500 CN- C, F
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	APHA 23rd Edition 4500 O C
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Electrical Conductivity	APHA 23rd Edition 2510 B
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fixed Solids	APHA 23rd Edition 2540 E
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluorides as F-	APHA 23rd Edition 4500 F- D
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hexavalent Chromium as Cr+6	APHA 23rd Edition 3500 Cr B
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate Nitrogen as N	IS 3025 (Part 34)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrite Nitrogen as N	APHA 23rd Edition 4500 NO2- B
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrogen (Ammonia) as N	APHA 23rd Edition 4500 NH3 B, C
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrogen (Organic) as N	APHA 23rd Edition 4500 N (org) B
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	APHA 23rd Edition 4500 H+ B
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenolic Compounds as Phenols	APHA 23rd Edition 5530 B, D
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphates as P	APHA 23rd Edition 4500 P D
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Silica as SiO2	APHA 23rd Edition 4500 SiO2 C
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphates as SO4-2	APHA 23rd Edition 4500 SO4-2 D
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphide (as H2S)	APHA 23rd Edition 4500 S2- F
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphite (as SO3)	APHA 23rd Edition 4500 SO32- B
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Alkalinity as CaCO3	APHA 23rd Edition 2320 B

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Chromium	APHA 23rd Edition 3120 B
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	APHA 23rd Edition 2540 C
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Solids	APHA 23rd Edition 2540 B
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids	APHA 23rd Edition 2540 D
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Volatile Solids	APHA 23rd Edition 2540 E
44	CHEMICAL- RESIDUES IN WATER	Phenols in waste water	Phenolic Compounds as Phenols	APHA 23rd Edition 5530 B, D: 2017
45	CHEMICAL- RESIDUES IN WATER	Phenols in water	Phenolic Compounds as Phenols	APHA 23rd Edition 5530 B, D: 2017
46	CHEMICAL- RESIDUES IN WATER	Trace elements in water	Boron as B	APHA 23rd Edition 3120 B: 2017
47	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Aluminum as Al	APHA 23rd Edition 3120 B: 2017
48	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Barium as Ba	APHA 23rd Edition 3120 B: 2017
49	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Boron as B	APHA 23rd Edition 3120 B: 2017
50	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Cadmium as Cd	APHA 23rd Edition 3120 B: 2017
51	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Cobalt as Co	APHA 23rd Edition 3120 B: 2017
52	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Copper as Cu	APHA 23rd Edition 3120 B: 2017
53	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Iron as Fe	APHA 23rd Edition 3120 B: 2017
54	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Lead as Pb	APHA 23rd Edition 3120 B: 2017
55	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Magnesium as Mg	APHA 23rd Edition 3120 B: 2017
56	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Manganese as Mn	APHA 23rd Edition 3120 B: 2017

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57	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Nickel as Ni	APHA 23rd Edition 3120 B: 2017
58	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Potassium as K	APHA 23rd Edition 3120 B: 2017
59	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Selenium as Se	APHA 23rd Edition 3120 B: 2017
60	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Sodium as Na	APHA 23rd Edition 3120 B: 2017
61	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Total Chromium	APHA 23rd Edition 3120 B: 2017
62	CHEMICAL- RESIDUES IN WATER	Trace metals in waste water	Zinc as Zn	APHA 23rd Edition 3120 B: 2017
63	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Aluminum as Al	APHA 23rd Edition 3120 B: 2017
64	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Barium as Ba	APHA 23rd Edition 3120 B: 2017
65	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Cadmium as Cd	APHA 23rd Edition 3120 B: 2017
66	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Chromium Total	APHA 23rd Edition 3120 B: 2017
67	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Cobalt as Co	APHA 23rd Edition 3120 B: 2017
68	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Copper as Cu	APHA 23rd Edition 3120 B: 2017
69	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Iron as Fe	APHA 23rd Edition 3120 B: 2017
70	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Lead as Pb	APHA 23rd Edition 3120 B: 2017
71	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Magnesium as Mg	APHA 23rd Edition 3120 B: 2017
72	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Manganese as Mn	APHA 23rd Edition 3120 B: 2017
73	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Nickel as Ni	APHA 23rd Edition 3120 B: 2017
74	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Potassium as K	APHA 23rd Edition 3120 B: 2017
75	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Selenium as Se	APHA 23rd Edition 3120 B: 2017

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76	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Sodium as Na	APHA 23rd Edition 3120 B: 2017
77	CHEMICAL- RESIDUES IN WATER	Trace metals in water	Zinc as Zn	APHA 23rd Edition 3120 B: 2017
78	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Acidity as CaCO3	APHA 23rd Edition 2310 B
79	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Biological Oxygen Demand 3 Days @ 27°C	IS 3025 (Part 44)
80	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Calcium as Ca	APHA 23rd Edition 3500 Ca B
81	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Chemical Oxygen Demand	APHA 23rd Edition 5220 D
82	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Chlorides as Cl-	APHA 23rd Edition 4500 Cl- B
83	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Chlorine (Residual)	APHA 23rd Edition 4500 Cl B
84	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Chromium Hexavalent as Cr+6	APHA 23rd Edition 3500 Cr B
85	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Cyanide	APHA 23rd Edition 4500 CN- C, F
86	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Dissolved Oxygen	APHA 23rd Edition 4500 O C
87	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Electrical Conductivity	APHA 23rd Edition 2510 B
88	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Fluoride as F-	APHA 23rd Edition 4500 F- D
89	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Nitrate Nitrogen as N	APHA 23rd Edition 4500 NO3- B
90	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Nitrite Nitrogen as N	APHA 23rd Edition 4500 NO2- B
91	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Nitrogen (Ammonia) as N	APHA 23rd Edition 4500 NH3- B, C
92	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	pH	APHA 23rd Edition 4500 H+ B
93	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Phenolic Compounds as Phenols	APHA 23rd Edition 5530 B, D
94	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Phosphates as P	APHA 23rd Edition 4500 P C
95	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Silica as SiO2	APHA 23rd Edition 4500 SiO2 C
96	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Sulphates as SO4-2	APHA 23rd Edition 4500 SO4-2E
97	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Sulphide (as H2S)	APHA 23rd Edition 4500 S2 F
98	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Total Dissolved Solids	APHA 23rd Edition 2540 C
99	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
100	CHEMICAL- WATER	Drinking Water, Ground Water, Surface Water	Turbidity	APHA 23rd Edition 2130 B
101	CHEMICAL- WATER	Drinking Water. Ground Water, Surface Water	Total Alkalinity as CaCO3	APHA 23rd Edition 2320 B