National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ESSEN & CO, #92, 7TH MAIN ROAD,3RD PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6533 **Page No** 1 of 5

Validity 20/01/2023 to 19/01/2025 **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- ORES & MINERALS	Bauxite	Aluminium Oxide Al2O3	IS 2000 (Part 3)
2	CHEMICAL- ORES & MINERALS	Bauxite	Iron Oxide Fe2O3	IS 2000 (Part 4)
3	CHEMICAL- ORES & MINERALS	Bauxite	Loss on ignition	IS 2000 (Part 1),
4	CHEMICAL- ORES & MINERALS	Bauxite	Silicon DiOxide SiO2	IS 2000 (Part 2)
5	CHEMICAL- ORES & MINERALS	Bauxite	Titanium dioxide as TiO2	IS 2000 (Part 5),
6	CHEMICAL- ORES & MINERALS	Iron ore	Iron as Fe	IS 1493 (Part 1),
7	CHEMICAL- ORES & MINERALS	Iron ore	Manganese as Mn	IS 1493:
8	CHEMICAL- ORES & MINERALS	Iron ore	PHOSPHOROUS	IS 1493 (Part 1),
9	CHEMICAL- ORES & MINERALS	Iron ore	Silica as SiO2	IS 1493 (Part 1)
10	CHEMICAL- ORES & MINERALS	Iron ore	Sulphur	IS 1493 (Part 1),
11	CHEMICAL- ORES & MINERALS	Iron ore	Titaium dioxide as TiO2	IS 1493 :
12	CHEMICAL- ORES & MINERALS	Iron ores	Aluminium oxide as Al2O3	IS 1493 (Part 1),
13	CHEMICAL- ORES & MINERALS	Limestone and Dolomite and Allied materials	Aluminium oxide Al2O3	IS 1760 (Part 3),
14	CHEMICAL- ORES & MINERALS	Limestone and Dolomite and Allied materials	Calcium Oxide CaO	IS 1760 (Part 3)
15	CHEMICAL- ORES & MINERALS	Limestone and Dolomite and allied materials	Iron Oxide Fe2O3	IS 1760 (Part 3)
16	CHEMICAL- ORES & MINERALS	Limestone and Dolomite and allied materials	Loss on ignition	IS 1760 (Part 1),
17	CHEMICAL- ORES & MINERALS	Limestone and Dolomite and allied materials	Magnesium oxide MgO	IS 1760 (Part 3)
18	CHEMICAL- ORES & MINERALS	Limestone and Dolomite and allied materials	Silicon dioxide SiO2	IS 1760 (Part 2),

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19	CHEMICAL- ORES & MINERALS	Manganese ores	Aluminium oxide as Al2O3	IS 1473
20	CHEMICAL- ORES & MINERALS	Manganese ores	Iron as Fe	IS 1473
21	CHEMICAL- ORES & MINERALS	Manganese ores	Manganese as Mn	IS 1473
22	CHEMICAL- ORES & MINERALS	Manganese ores	Manganese dioxide MnO2	IS 1473
23	CHEMICAL- ORES & MINERALS	Manganese ores	Phosphorous	IS 1473
24	CHEMICAL- ORES & MINERALS	Manganese ores	Silicon dioxide SiO2	IS 1473
25	CHEMICAL- ORES & MINERALS	Mineral for refractories,Alumino silicates.	Calcium Oxide CaO	IS 12107 (Part 8)
26	CHEMICAL- ORES & MINERALS	Minerals for refractories ,Aluminosilicates	Iron oxide Fe2O3	IS 12107 (Part 6)
27	CHEMICAL- ORES & MINERALS	Minerals for refractories ,Aluminosilicates	Silicon dioxide SiO2	IS 12107 (Part 2),
28	CHEMICAL- ORES & MINERALS	Minerals for refractories ,Aluminosilicates	Sodium oxide Na2O	IS 12107 (Part 9),
29	CHEMICAL- ORES & MINERALS	Minerals for refractories ,Alumio silicates	Loss on ignition	IS 12107 (Part 1),
30	CHEMICAL- ORES & MINERALS	Minerals for refractories,Aluminosilicates,	Potassium Oxide K2O	IS 12107 (Part 9)
31	CHEMICAL- ORES & MINERALS	Minerals of refractories ,Aluminosilicates,	Aluminium Oxide Al2O3	IS 12107 (Part 3)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Ammonical nitrogen	IS 3025 (Part 34), Cl. No. 2.5
33	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Biochemical oxygen demand(BOD)27 C for 3 days	IS 3025 (Part 44), Cl. No. 7,8,9
34	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Boron	IS 3025 (Part 57), Cl. No. 6
35	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Cadmium	IS 3025 (Part 41), Cl. No. 5
36	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Chemical oxygen demand(COD)	IS 3025 (Part 58), Cl. No. 9
37	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Chloride as Cl	IS 3025 (Part 32), Cl. No. 2

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Colour	IS 3025 (Part 04), Cl. No. 2.7
39	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Cyanide as CN	IS 3025 (Part 27), Cl. No. 2.7
40	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Dissolved phosphate as PO4	IS 3025 (Part 31), Cl. No. 4
41	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Fluoride as F	APHA (4500-F-A) 22nd edition
42	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Free ammonia	IS 3025 (Part 34), Cl. No. 2.3
43	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Hexavalent chromium	IS 3025 (Part 52), Cl. No. 6
44	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Lead	IS 3025 (Part 47), Cl. No. 7
45	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Mercury	IS 3025 (Part 48), Cl. No. 5
46	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Nickel	IS 3025 (Part 54), Cl. No. 7
47	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Odour	IS 3025 (Part 05), Cl. No. 3
48	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Oil and Grease	IS 3025 (Part 39), Cl. No. 5
49	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	PH value	IS 3025 (Part 11), Cl. No. 2.4
50	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Phenolic compounds as C6H5OH	IS 3025 (Part 43), Cl. No. 6
51	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Residual chlorine (Total/Free)	IS 3025 (Part 26), Cl. No. 3
52	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Sulphate as SO4	IS 3025 (Part 24), Cl. No. 2
53	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Sulphide as S	IS 3025 (Part 29), Cl. No. 2.6
54	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Temperature	IS 3025 (Part 9), Cl. No. 3
55	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Total chromium	IS 3025 (Part 52), Cl. No. 7
56	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Total dissolved solids	IS 3025 (Part 16), Cl. No. 6

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57	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Total Kjeldahl nitrogen	IS 3025 (Part 34), Cl. No. 2.5
58	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Total suspended solids	IS 3025 (Part 17), Cl. No. 4
59	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Zinc	IS 3025 (Part 49), Cl. No. 5
60	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface Water	Aluminium (as Al)	IS 3025 (Part 55), Cl. No. 5
61	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface water	Barium (as Ba)	IS 3428
62	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface Water.	Arsenic (as As)	IS 3025 (Part 37), Cl. No. 3
63	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground water and Surface Water.	Boron (as B)	IS 3025 (Part 57) Cl. No. 6
64	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground water and Surface Water.	Cadmium (as Cd)	Is 3025 (Part 41), Cl. No. 5
65	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface Water.	Copper (as Cu)	IS 3025 (Part 42) Cl. No. 6
66	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface Water.	Iron (as Fe)	IS 3025 (Part 53), Cl. No. 6.0
67	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface Water.	Lead (as Pb)	IS 3025 (Part 47)
68	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface Water.	Manganese (as Mn)	IS 3025 (Part 59), Cl. No. 6
69	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface Water.	Mercury (as Hg)	IS 3025 (Part 48), Cl. No. 5
70	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface Water.	molybdenum (as Mb)	APHA 3111-D, 22 Edition
71	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface Water.	Nickel (as Ni)	IS 3025 (Part 54), Cl. No. 7
72	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface Water.	Selenium (as Se)	IS 3025 (Part 56), Cl. No. 7
73	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water and Surface Water.	Silver (as Ag)	IS 13428 Annex J
74	CHEMICAL- RESIDUES IN WATER	Drinking water, Ground Water and Surface Water.	Total Chromium (as Cr)	IS 3025 (Part 52), Cl. No. 7
75	CHEMICAL- RESIDUES IN WATER	Drinking water, Ground Water and Surface Water.	Zinc (as Zn)	IS 3025 (Part 49), Cl. No. 5

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76	CHEMICAL- WATER	Drinking water ,Ground water and suface water	Taste	IS 3025 (Part 7), Cl. No. 4
77	CHEMICAL- WATER	Drinking water ,Ground water and surface water	Calcium as Ca	IS 3025 (Part 40), Cl No. 5
78	CHEMICAL- WATER	Drinking water ,Ground water and surface water	Chloride as Cl	IS 3025 (Part 32), Cl. No. 2
79	CHEMICAL- WATER	Drinking water ,Ground water and surface water	Magnesium as Mg	IS 3025 (Part 46), Cl. No. 6
80	CHEMICAL- WATER	Drinking water ,Ground water and surface water	Nitrate as NO3	APHA 4500-NO3, 22nd edition
81	CHEMICAL- WATER	Drinking water ,Ground water and surface water	Odour	IS 3025 (Part 5), Cl. No. 3
82	CHEMICAL- WATER	Drinking water ,Ground water and surface water	Total hardness as CaCO3	IS 3025 (Part 21), Cl. No. 5
83	CHEMICAL- WATER	Drinking water, Ground water and surface water	Ammonia	IS 3025 (Part 34), Cl. No. 2.3
84	CHEMICAL- WATER	Drinking water,Ground water and suface water	Sulphate as SO4	IS 3025 (Part 24), Cl. No. 2 & 4.
85	CHEMICAL- WATER	Drinking water,Ground water and surface water	Colour	IS 3025 (Part 4), Cl. No. 2.7
86	CHEMICAL- WATER	Drinking water,Ground water and surface water	Cyaide as CN	IS 3025 (Part 27), Cl. No. 2.7
87	CHEMICAL- WATER	Drinking water,Ground water and surface water	Fluoride as F	APHA (4500-F-A) 22nd edition
88	CHEMICAL- WATER	Drinking water,Ground water and surface water	Free residual chlorine	IS 3025 (Part 26), Cl. No. 3
89	CHEMICAL- WATER	Drinking water,Ground water and surface water	PH Value	IS 3025 (Part 11), Cl. No. 2.4
90	CHEMICAL- WATER	Drinking water,Ground water and surface water	Sulphide as S	IS 3025 (Part 29), Cl. No. 2.6
91	CHEMICAL- WATER	Drinking water,Ground water and surface water	Total Alkalinity as CaCO3	IS 3025 (Part 23), Cl. No. 8
92	CHEMICAL- WATER	Drinking water,Ground water and surface water	Turbidity	IS 3025 (Part 10) Cl. No. 5
93	CHEMICAL- WATER	Drinking water,Ground waterand surface water	Phenolic compounds	IS 3025 (Part 43), Cl. No. 6
94	CHEMICAL- WATER	Drinkng water,Ground water and surface water	Total Dissolved Solids	IS 3025 (Part 16), Cl. No. 6