National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : METALLURGICAL LABORATORY,GCF, GUN CARRIAGE FACTORY, JABALPUR G.C.F, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10848 **Page No** 1 of 5

Validity 20/07/2022 to 19/07/2024 **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- METALS & ALLOYS	Aluminum & its Alloys	Chromium (Cr)	ASTM-E-1251
2	CHEMICAL- METALS & ALLOYS	Aluminum & its Alloys	Copper (Cu)	ASTM-E-1251
3	CHEMICAL- METALS & ALLOYS	Aluminum & its Alloys	Iron (Fe)	ASTM-E-1251
4	CHEMICAL- METALS & ALLOYS	Aluminum & its Alloys	Magnesium (Mg)	ASTM-E-1251
5	CHEMICAL- METALS & ALLOYS	Aluminum & its Alloys	Manganese (Mn)	ASTM-E-1251
6	CHEMICAL- METALS & ALLOYS	Aluminum & its Alloys	Nickel (Ni)	ASTM-E-1251
7	CHEMICAL- METALS & ALLOYS	Aluminum & its Alloys	Silicon (Si)	ASTM-E-1251
8	CHEMICAL- METALS & ALLOYS	Aluminum & its Alloys	Titanium (Ti)	ASTM-E-1251
9	CHEMICAL- METALS & ALLOYS	Aluminum & its Alloys	Zinc (Zn)	ASTM-E-1251
10	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon (C)	IS 15338
11	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese (Mn)	IS 15338
12	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus (P)	IS 15338
13	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon (Si)	IS 15338
14	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur (S)	IS 15338
15	CHEMICAL- METALS & ALLOYS	Copper and Its Alloys	Aluminum (Al)	BSEN-15079
16	CHEMICAL- METALS & ALLOYS	Copper and Its Alloys	Iron (Fe)	BSEN-15079
17	CHEMICAL- METALS & ALLOYS	Copper and Its Alloys	Lead (Pb)	BSEN-15079
18	CHEMICAL- METALS & ALLOYS	Copper and Its Alloys	Manganese (Mn)	BSEN-15079

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19	CHEMICAL- METALS & ALLOYS	Copper and Its Alloys	Nickel (Ni)	BSEN-15079
20	CHEMICAL- METALS & ALLOYS	Copper and Its Alloys	Phosphorus (P)	BSEN-15079
21	CHEMICAL- METALS & ALLOYS	Copper and Its Alloys	Tin (Sn)	BSEN-15079
22	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Carbon (C)	GCF/CHEM-TM-1 SOP Issue-01
23	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Chromium (Cr)	GCF/CHEM-TM-1 SOP ISSUE-01
24	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Cobalt (Co)	GCF/CHEM-TM-1 SOP Issue-01
25	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Manganese (Mn)	GCF/CHEM-TM-1 SOP ISSUE-01
26	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Molybdenum (Mo)	GCF/CHEM-TM-1 SOP ISSUE-01
27	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Phosphorus (P)	GCF/CHEM-TM-1 SOP ISSUE-01
28	CHEMICAL- METALS & ALLOYS	High speed Tool Steel	Silicon (Si)	GCF/CHEM-TM-1 SOP ISSUE-01
29	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Sulfur (S)	GCF/CHEM-TM-1 SOP ISSUE-01
30	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Tungsten (W)	GCF/CHEM-TM-1 SOP ISSUE-01
31	CHEMICAL- METALS & ALLOYS	High Speed Tool Steel	Vanadium (V)	GCF/CHEM-TM-1 SOP ISSUE-01
32	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Silicon (Si)	IS 228 (PART 8)
33	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon (C)	ASTM-E-415
34	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon (C)	IS 228 (PART 1)
35	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon (C)	IS 8811
36	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium (Cr)	ASTM-E-415
37	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium (Cr)	IS 228 (PART 6)

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38	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium (Cr)	IS 8811
39	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Cobalt (Co)	ASTM-E-415
40	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Cobalt (Co)	IS 8811
41	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Manganese (Mn)	ASTM-E-415
42	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Manganese (Mn)	IS 228 (PART 2)
43	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Manganese (Mn)	IS 8811
44	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Molybdenum (Mo)	ASTM-E-415
45	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Molybdenum (Mo)	IS 8811
46	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Nickel (Ni)	ASTM-E-415
47	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Nickel (Ni)	IS 228 (PART 5)
48	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Nickel (Ni)	IS 8811
49	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus (P)	ASTM-E-415
50	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus (P)	IS 228 (PART 3)
51	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus (P)	IS 8811
52	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Silicon (Si)	ASTM-E-415
53	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Silicon (Si)	IS 8811
54	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulfur (S)	ASTM-E-415
55	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulfur (S)	IS 228 (PART 9)
56	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulfur (S)	IS 8811

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57	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Tungsten (W)	ASTM-E-415
58	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Tungsten (W)	IS 8811
59	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Vanadium (V)	ASTM-E-415
60	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Vanadium (V)	IS 8811
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon (C)	ASTM-E-1086
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium (Cr)	ASTM-E-1086
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese (Mn)	ASTM-E-1086
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum (Mo)	ASTM-E-1086
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel (Ni)	ASTM-E-1086
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus (P)	ASTM-E-1086
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon (Si)	ASTM-E-1086
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur (S)	ASTM-E-1086
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metallic Raw Material,Components,Casting and Forgings	0.2% Proof Stress	IS 1608
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metallic Raw Material,Components,Casting and Forgings	Brinell Hardness Test (HBW 10/3000Kgf)	IS 1500 (PART1)
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metallic Raw Material,Components,Casting and Forgings	Brinell Hardness Test (HBW 2.5/187.5Kgf)	IS 1500 (PART1)
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metallic Raw Material,Components,Casting and Forgings	Brinell Hardness Test (HBW 5/750Kgf)	IS 1500 (PART1)
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metallic Raw Material,Components,Casting and Forgings	Elongation	IS 1608

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74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metallic Raw Material,Components,Casting and Forgings	Izod Impact Test	IS 1598
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metallic Raw Material,Components,Casting and Forgings	Ultimate Tensile Strength	IS 1608
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metallic Raw Material,Components,Casting and Forgings	Vickers Hardness Test (HV30)	IS 1501 (PART1)
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metallic Raw Material,Components,Casting and Forgings	Vickers Hardness Test (HV5)	IS 1501(PART1)
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metallic Raw Material,Components,Casting and Forgings	Yield stress	IS 1608