SCOPE OF ACCREDITATION

Laboratory Name :	TESTING LABORATORY, INSTITUTE FOR MACHINETOOLS TECHNOLOGY, A-4, FOCAL POINT, BATALA, PUNJAB, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6161
Validity	26/09/2022 to 25/09/2024

Last Amended on 03/11/2022

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- METALS & ALLOYS	Aluminium & its alloys	Chromium (Cr)	ASTM E 1251
2	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper (Cu)	ASTM E 1251
3	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron (Fe)	ASTM E 1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead (Pb)	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium (Mg)	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese (Mn)	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel (Ni)	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon (Si)	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin (Sn)	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium(Ti)	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc (Zn)	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Aluminium (Al)	IS 8811
13	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Boron (B)	IS 8811
14	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Carbon (C)	IS 8811
15	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Chromium (Cr)	IS 8811
16	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Cobalt (Co)	IS 8811
17	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Copper (Cu)	IS 8811
18	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Molybdenum (Mo)	IS 8811

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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
19	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Nickel (Ni)	IS 8811
20	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Phosphorus(P)	IS 8811
21	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Silicon (Si)	IS 8811
22	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Sulphur (S)	IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Tungsten (W)	IS 8811
24	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Vanadium (V)	IS 8811
25	CHEMICAL- METALS & ALLOYS	Carbon Steel	Boron (B)	IS 8811
26	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon (C)	IS 8811
27	CHEMICAL- METALS & ALLOYS	Carbon Steel	Manganese (Mn)	IS 8811
28	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorus(P)	IS 8811
29	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon (Si)	IS 8811
30	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulphur (S)	IS 8811
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese (Mn)	ASTME 1999
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium (Al)	ASTME 1999
33	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon (C)	ASTME 1999
34	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium (Cr)	ASTME 1999
35	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper (Cu)	ASTME 1999
36	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum (Mo)	ASTME 1999
37	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel (Ni)	ASTME 1999

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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
38	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus(P)	ASTME 1999
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon (Si)	ASTME 1999
40	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur(S)	ASTME 1999
41	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium (V)	ASTME 1999
42	CHEMICAL- METALS & ALLOYS	Copper & its Alloy	Phosphorus(P)	BSEN 15079
43	CHEMICAL- METALS & ALLOYS	Copper & its Alloy	Zinc (Zn)	BSEN 15079
44	CHEMICAL- METALS & ALLOYS	Copper & its Alloy	Aluminium (Al)	BSEN 15079
45	CHEMICAL- METALS & ALLOYS	Copper & its Alloy	Chromium (Cr)	BSEN 15079
46	CHEMICAL- METALS & ALLOYS	Copper & its Alloy	Iron (Fe)	BSEN 15079
47	CHEMICAL- METALS & ALLOYS	Copper & its Alloy	Lead (Pb)	BSEN 15079
48	CHEMICAL- METALS & ALLOYS	Copper & its Alloy	Manganese (Mn)	BSEN 15079
49	CHEMICAL- METALS & ALLOYS	Copper & its Alloy	Nickel (Ni)	BSEN 15079
50	CHEMICAL- METALS & ALLOYS	Copper & its Alloy	Silicon (Si)	BSEN 15079
51	CHEMICAL- METALS & ALLOYS	Copper & its Alloy	Tin (Sn)	BSEN 15079
52	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus(P)	IS 9879
53	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon (C)	IS 9879
54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium (Cr)	IS 9879
55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper (Cu)	IS 9879
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese (Mn)	IS 9879

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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
57	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum (Mo)	IS 9879
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel (Ni)	IS 9879
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon (Si)	IS 9879
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur(S)	IS 9879
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys &its products (steel,stainless steel,alloy steel,cast iron)	Breaking Load	IS 1608
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys &its products (steel,stainless steel,alloy steel,cast iron)	Elongation %	IS 1608
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys &its products (steel,stainless steel,alloy steel,cast iron)	Hardness Test	IS 1500 (Part 1)
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys &its products (steel,stainless steel,alloy steel,cast iron)	Micro Vickers Hardness	IS 1501 (Part 1)
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys &its products (steel,stainless steel,alloy steel,cast iron)	Proof Stress @0.2%	IS 1608
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys &its products (steel,stainless steel,alloy steel,cast iron)	Reduction in area	IS 1608
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys &its products (steel,stainless steel,alloy steel,cast iron)	Rockwell C Hardness	IS 1586 (Part 1)
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys &its products (steel,stainless steel,alloy steel,cast iron)	Tensile Strength	IS 1608
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys &its products (steel,stainless steel,alloy steel,cast iron)	Yield Strength	IS 1608
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals,alloys & its products	Bend Test	IS 1599
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals,alloys & its products	Breaking Load	IS 1608

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72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals,alloys & its products	Hardness Test	IS 1500(Part 1)
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals,alloys & its products	Micro Vickers hardness Test	IS 1501 (Part 1)
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals,alloys & its products	Proof Stress@0.2%	IS 1608
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals,alloys & its products	Rockwell C Hardness Test	IS 1586 (PART 1)
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals,alloys & its products	Tensile Strength	IS 1608
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals,alloys & its products	Yield Strength	IS 1608
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Properties of Metals	0.2% Proof Stress	IS 1608
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Properties of Metals	Proof Stress@0.2%	IS 1608
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Copper Material,alloy and its product	0.2% Proof Stress	IS 1608
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Copper Material,alloy and its product	Breaking Load	IS 1608
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Copper Material,alloy and its product	Elongation	IS 1608
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Copper Material,alloy and its product	Micro Vickers hardness Test	IS 1501(Part 1)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Copper Material,alloy and its product	Tensile strength	IS 1608
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & its products	0.2% Proof Stress	IS 1608

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86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & its products	Breaking Load	IS 1608
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & its products	Elongation	IS 1608
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & its products	Micro Vickers hardness Test	IS 1501(Part1)
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & its products	Tensile Strength	IS 1608
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structure steel,bar,rebar & plates	Bend Test	IS 1599
91	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Mass of Zinc Coating & Uniformity of Zinc Coating on wire	IS 6745
92	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Mass of Zinc Coating on MS Tube	IS 6745
93	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, steel, alloys & its products	Determination of case depth by hardness method	IS 6416
94	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, steel, alloys & its products	Determination of case depth by microscopic method	IS 6416
95	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, steel, alloys & its products	Determination of Decarburized/ carburized layer by microscopic method/ image analyzer	IS 6396
96	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, steel, alloys & its products	Determination of Grain Size by microscopic method	ASTME 112
97	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, steel, alloys & its products	Determination of inclusion rating by microscopic method	IS 4163
98	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, steel, alloys & its products	Estimation of Grain Size by Automatic image analysis method	ASTM E 1382
99	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, steel, alloys & its products	Estimation of Grain Size by Microscopic comparison method	IS 4748
100	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, steel, alloys & its products	Micro Structure Analysis	ASM Vol. 9 Handbook

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101	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, steel, alloys & its products	Plating/ Coating thickness measurement by microscopic method.	IS 3203
102	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals,cast iron	Micro Structure Analysis	IS 7754
103	MECHANICAL-METALLOGRAPHY TEST	Metallic coatings	Plating/ Coating thickness measurement by microscopic method	IS 3203
104	MECHANICAL-METALLOGRAPHY TEST	Metallography	Micro Structure Analysis	ASM Vol.9 Handbook
105	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous metals, aluminium,copper, alloys & its products	Plating/ Coating thickness measurement by microscopic method	IS 3203
106	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous metals,aluminium, alloys & its products	Micro Structure Analysis	ASM Vol .9 Handbook
107	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous metals,copper, alloys & its products	Micro Structure Analysis	ASM Vol.9 Handbook