National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL MATERIALS AND PROCESSES LABORATORY, HINDUSTAN AERONAUTICS LIMITED (BANGALORE COMPLEX), FOUNDRY AND FORGE DIVISION, HINDUSTAN AERONAUTICS LIMITED, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6807
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Validity	18/01/2022 to 17/01/2024
Last Amended on	22/04/2022

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	Allot steel	Molybdenum (Spectrovac Unit)	IS 8811
2	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon (Conventional Wet Analysis)	ASTM E 1019
3	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon (Spectrovac Unit)	IS 8811
4	CHEMICAL- METALS & ALLOYS	Alloy steel	Chromium (Conventional Wet Analysis)	IS 228 Part 6
5	CHEMICAL- METALS & ALLOYS	Alloy steel	Chromium (Spectrovac Unit)	IS 8811
6	CHEMICAL- METALS & ALLOYS	Alloy steel	Copper (Spectrovac Unit)	IS 8811
7	CHEMICAL- METALS & ALLOYS	Alloy steel	Manganese (Conventional Wet Analysis)	IS228 Part 2
8	CHEMICAL- METALS & ALLOYS	Alloy steel	Manganese (Spectrovac Unit)	IS 8811
9	CHEMICAL- METALS & ALLOYS	Alloy steel	Molybdenum (Conventional Wet Analysis)	IS 228 Part 7
10	CHEMICAL- METALS & ALLOYS	Alloy steel	NIckel (Conventional Wet Analysis)	IS 228 Part 5
11	CHEMICAL- METALS & ALLOYS	Alloy steel	Nickel (Spectrovac Unit)	IS 8811
12	CHEMICAL- METALS & ALLOYS	Alloy steel	Phosphorus (Conventional Wet Analysis)	IS 228 Part 3
13	CHEMICAL- METALS & ALLOYS	Alloy steel	Phosphorus (Spectrovac Unit)	IS 8811
14	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon (Conventional Wet Analysis)	IS 228 Part 8
15	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon (Spectrovac Unit)	IS 8811
16	CHEMICAL- METALS & ALLOYS	Alloy steel	Sulphur (Conventional Wet Analysis)	IS228 Part 20
17	CHEMICAL- METALS & ALLOYS	Alloy steel	Sulphur (Spectrovac Unit)	IS 8811
18	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Beryllium (Spectrovac Unit)	ASTM E 1251

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19	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium (Spectrovac Unit)	ASTM E 1251
20	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper (Spectrovac Unit)	ASTM E 1251
21	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron (Spectrovac Unit)	ASTM E 1251
22	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead (Spectrovac Unit)	ASTM E 1251
23	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium (Spectrovac Unit)	ASTM E 1251
24	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese (Spectrovac Unit)	ASTM E 1251
25	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel (Spectrovac Unit)	ASTM E 1251:
26	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon (Spectrovac Unit)	ASTM E 1251
27	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin (Spectrovac Unit)	ASTM E 1251
28	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium (Spectrovac Unit)	ASTM E 1251
29	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc (Spectrovac Unit)	ASTM E 1251
30	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon (Spectrovac Unit)	IS 9879
31	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium (Spectrovac Unit)	IS 9879
32	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper (Spectrovac Unit)	IS 9879
33	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese (Spectrovac Unit)	IS 9879
34	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum (Spectrovac Unit)	IS9879
35	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel (Spectrovac Unit)	IS 9879
36	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus (Spectrovac Unit)	IS 9879
37	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon (Spectrovac Unit)	IS 9879

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38	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur (Spectrovac Unit)	IS 9879
39	CHEMICAL- METALS & ALLOYS	Steel	Hydrogen by thermal conductivity method	IS 228 Part 22
40	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Hydrogen by thermal conductivity method	ASTM E 1447
41	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys, Magnesium alloys, Titanium alloys and Nickel alloys	Micro Vickers Hardness	ASTM E384
42	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys, Magnesium alloys, Titanium alloys and Nickel alloys	Micro Vickers Hardness	ASTM E384
43	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys, Magnesium alloys, Titanium alloys and Nickel alloys	Vickers Hardness	ASTM E384
44	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum alloys & Magnesium alloys	Brinell Hardness	ASTM E10
45	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum alloys & Magnesium alloys	Rockwell Hardness	ASTM E18
46	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum alloys, Magnesium alloys, Titanium alloys & Nickel alloys	Micro Vickers Hardness	ASTM E384
47	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum alloys, Magnesium alloys, Titanium alloys & Nickel alloys	Vickers Hardness	ASTM E92
48	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum alloys, Magnesium alloys, Titanium alloys and Nickel alloys	Micro Vickers Hardness	ASTM E384
49	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper alloys	Brinell Hardness	ASTM E10
50	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Alloys	Micro Vickers Hardness	ASTM E384
51	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Alloys	Micro Vickers Hardness	ASTM E384

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52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper Alloys	Micro Vickers hardness	ASTM E384
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper alloys	Rockwell Hardness	ASTM E18
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper alloys	Vickers Hardness	ASTM E92
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper Alloys	Vickers Hardness	ASTM E92
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper alloys/Aluminium Alloys	Brinell Hardness	ASTM E10
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper Alloys/Aluminium Alloys	Micro Vickers Hardness	ASTM E384
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous metals, alloys & products	Elevated Temperature Tensile Test (up to 1000° C) % Elongation	ASTM E21
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous metals, alloys & products	Elevated Temperature Tensile Test (up to 1000° C) UTS	ASTM E21
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous metals, alloys & products	Elevated Temperature Tensile Test (up to 1000° C) Yield Stress (0.2% extension)	ASTM E21
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous metals, alloys & products	Tensile Test (At RT) % Elongation	ASTM E8/E8M
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous metals, alloys & products	Tensile Test (At RT) UTS	ASTM E8/E8M
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous metals, alloys & products	Tensile Test (At RT) Yield Stress (0.2% extension)	ASTM E8/E8M
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Charpy Impact Test	ASTM E23
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Creep Test (up to 1000° C), % Creep Strain	ASTM E139

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66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Elevated Temperature Tensile Test (up to 1000° C) % Reduction of Area	ASTM E21
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Notch Stress Rupture, Combined Smooth & Notch Stress Rupture Test (up to 1000° C), Rupture Hours	ASTM E 292
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Stress Rupture Test (up to 1000° C), % Elongation	ASTM E139
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Stress Rupture Test (up to 1000° C), Rupture Hours	ASTM E139
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Tensile Test (at RT), % Reduction of Area	ASTM E8/E8M
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Brinell Hardness	ASTM E10
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Charpy Impact Test	ASTM E23
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Creep Test (up to 1000° C)	ASTM E139
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Elevated Temperature Tensile Test (up to 1000° C) % Elongation	ASTM E21
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Elevated Temperature Tensile Test (up to 1000° C) % Reduction of Area	ASTM E21
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Elevated Temperature Tensile Test (up to 1000° C) UTS	ASTM E 21
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Elevated Temperature Tensile Test (up to 1000° C) Yield Stress (0.2% extension)	ASTM E21
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Izod Impact Test	ASTM E 23

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79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Micro Vickers Hardness	ASTM E384
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Micro Vickers Hardness	ASTM E384
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Micro Vickers Hardness	ASTM E384
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Micro Vickers Hardness	ASTM E384
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Notch Stress Rupture, Combined Smooth & Notch Stress Rupture Test (up to 1000° C) % Elongation	ASTM E292
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Notch Stress Rupture, Combined Smooth & Notch Stress Rupture Test (up to 1000° C), Rupture Hours	ASTM E292
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Rockwell Hardness	ASTM E18
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Rockwell Hardness	ASTM E18
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Stress Rupture Test (up to 1000° C), Rupture Hours	ASTM E139
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Tensile Test (At RT) % Elongation	ASTM E8/E8M
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Tensile Test (At RT) % Reduction of Area	ASTM E8/E8M
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Tensile Test (At RT) UTS	ASTM E8/E8M
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Tensile Test (At RT) Yield Stress(0.2% extension)	ASTM E8/E8M

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92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Vickers Hardness	ASTM E92
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Vickers Hardness	ASTM E92
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Vickers Hardness	ASTM E92
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium alloys & Nickel alloys	Brinell Hardness	ASTM E10
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium alloys & NIckel alloys	Rockwell hardness	ASTM E18
97	MECHANICAL-METALLOGRAPHY TEST	Aluminum alloys	Grain size measurement by Comparison Method	ASTM E112
98	MECHANICAL-METALLOGRAPHY TEST	Aluminum alloys	Grain size measurement by Intercept Method	ASTM E112-2021, ASTM E1382
99	MECHANICAL-METALLOGRAPHY TEST	Aluminum alloys	Macro examination	ASTM E340
100	MECHANICAL-METALLOGRAPHY TEST	Aluminum alloys	Microstructure Analysis	ASTM E3-2017, ASTM E407 -2016, ASM Hand Book Vol 9
101	MECHANICAL-METALLOGRAPHY TEST	Cast iron	Graphite Flake Size, Type & Distribution	ASTM A247
102	MECHANICAL-METALLOGRAPHY TEST	Copper alloys	Grain size measurement by Comparison method	ASTM E112
103	MECHANICAL-METALLOGRAPHY TEST	Copper alloys	Grain size measurement by Intercept method	ASTM E112:2021, ASTM E1382
104	MECHANICAL-METALLOGRAPHY TEST	Copper alloys	Macro examination	ASTM E340
105	MECHANICAL-METALLOGRAPHY TEST	Copper alloys	Microstructure Analysis	ASTM E3-2017, ASTM E407 -2016, ASM Hand Book Vol 9
106	MECHANICAL-METALLOGRAPHY TEST	Low carbon steel	Case depth measurement by Micro Vickers Hardness method	IS 6416
107	MECHANICAL-METALLOGRAPHY TEST	Low carbon steel	Case depth measurement by Microscopic method	IS 6416
108	MECHANICAL-METALLOGRAPHY TEST	Magnesium alloy & Titanium alloy	Grain size measurement by Comparison method	ASTM E112

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109	MECHANICAL-METALLOGRAPHY TEST	Magnesium alloy, Titanium alloy & Nickel alloy	Grain size measurement by Intercept method	ASTM E112:2021, ASTM E1382
110	MECHANICAL-METALLOGRAPHY TEST	Magnesium alloy, Titanium alloy & Nickel alloy	Microstructure Analysis	ASTM E3-2017, ASTM E407 -2016, ASM Hand Book Vol 9
111	MECHANICAL-METALLOGRAPHY TEST	Magnesium alloys, Titanium alloys & Nickel alloys	Macro examination	ASTM E340
112	MECHANICAL-METALLOGRAPHY TEST	Nickel Alloy	Grain size measurement by Comparison method	ASTM E112
113	MECHANICAL-METALLOGRAPHY TEST	Steels	Depth of Decarburisation by Microscopic method	ASTM E1077
114	MECHANICAL-METALLOGRAPHY TEST	Steels	Grain size measurement by Comparison method	ASTM E112
115	MECHANICAL-METALLOGRAPHY TEST	Steels	Grain size measurement by Intercept method	ASTM E112:2021, ASTM E1382
116	MECHANICAL-METALLOGRAPHY TEST	Steels	Inclusion rating by Comparison method	ASTM E45 (METHOD-A)
117	MECHANICAL-METALLOGRAPHY TEST	Steels	Macro examination	ASTM E340
118	MECHANICAL-METALLOGRAPHY TEST	Steels, Cast iron	Microstructure Analysis	ASTM E3-2017, ASTM E407 -2016, ASM Hand Book Vol 9
119	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Sheets	Density	ISO 2781
120	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Sheets	Rubber Hardness	ISO 48-2 Method M
121	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Sheets	Tensile Strength	ISO 37
122	NON-DESTRUCTIVE-METALS & ALLOYS	Castings & Weldment (Ferrous & Non-Ferrous)	Radiographic Inspection (X-Ray) Up to 40 mm thick steel or other equivalent thickness material.	ASTM E 1742
123	NON-DESTRUCTIVE-METALS & ALLOYS	Castings &Weldments (Ferrous & Non-Ferrous)	Radiographic Inspection (X-Ray) Up to 40 mm thick steel or other equivalent thickness material.	ASTM E 1030
124	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non-ferrous bar stock materials and wrought products	Ultrasonic Inspection (Pulse-echo contact method with A scan) (Normal beam)	AMS 2630
125	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non-ferrous bar stock materials and wrought products	Ultrasonic Inspection (Pulse-echo contact method with A scan) (Normal beam)	AMS- 2154

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126	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non-ferrous bar stock materials and wrought products	Ultrasonic Inspection (Pulse-echo contact method with A scan) (Normal beam)	ASTM B 594
127	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non-ferrous bar stock materials and wrought products	Ultrasonic Inspection (Pulse-echo contact method with A scan) (Normal beam)	ASTM E-114