National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, INVESTMENT & PRECISION CASTINGS LIMITED, NARI ROAD, BHAVNAGAR, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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
Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Copper (Cu)	ASTM E 1251
2	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Iron (Fe)	ASTM E 1251
3	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Lead (Pb)	ASTM E 1251
4	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Magnesium (Mg)	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Manganese (Mn)	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Silicon (Si)	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Tin (Sn)	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Aluminium (Al)	ASTM E415
9	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Aluminium (Al)	IS 8811
10	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Carbon (C)	ASTM E415
11	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Carbon (C)	IS 8811
12	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Chromium (Cr)	ASTM 415
13	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Chromium (Cr)	IS 8811
14	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Cobalt (Co)	ASTM E415
15	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Cobalt (Co)	IS 8811
16	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Copper (Cu)	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Copper (Cu)	IS 8811
18	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Manganese (Mn)	ASTM E415

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19	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Manganese (Mn)	IS 8811
20	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Molybdenum (Mo)	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Molybdenum (Mo)	IS 8811
22	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Nickel (Ni)	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Nickel (Ni)	IS 8811
24	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Niobium (Nb)	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Niobium (Nb)	IS 8811
26	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Phosphorus (P)	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Phosphorus (P)	IS 8811
28	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Silicon (Si)	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Silicon (Si)	IS 8811
30	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Sulphur (S)	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Sulphur (S)	IS 8811
32	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Titanium (Ti)	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Titanium (Ti)	IS 8811
34	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Vanadium (V)	ASTM E415
35	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloy Steel	Vanadium (V)	IS 8811
36	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium (Al)	IS 15338
37	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium (Al)	JIS G1253

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38	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon (C)	ASTM E1999
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon (C)	IS 15338
40	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon (C)	JIS G1253
41	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium (Cr)	ASTM E1999
42	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium (Cr)	IS 15338
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium (Cr)	JIS G1253
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Cobalt (Co)	JIS G1253
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper (Cu)	ASTM E1999
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper (Cu)	IS 15338
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper (Cu)	JIS 1253
48	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese (Mn)	ASTM E1999
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese (Mn)	IS 15338
50	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese (Mn)	JIS 1253
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum (Mo)	ASTM E1999
52	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum (Mo)	IS 15338
53	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum (Mo)	JIS 1253
54	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel (Ni)	ASTM E1999
55	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel (Ni)	IS 15338
56	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel (Ni)	JIS G1253

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57	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus (P)	ASTM E1999
58	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus (P)	IS 15338
59	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus (P)	JIS G1253
60	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon (Si)	ASTM E1999
61	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon (Si)	IS 15338
62	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon (Si)	JIS G1253
63	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur (S)	ASTM E1999
64	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur (S)	IS 15338
65	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur (S)	JIS G1253
66	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium (Ti)	JIS G1253
67	CHEMICAL- METALS & ALLOYS	Cast Iron	Tungsten (W)	JIS 1253
68	CHEMICAL- METALS & ALLOYS	Cast Iron	Tungsten (W)	JIS 1253
69	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium (V)	ASTM E1999
70	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium (V)	IS 15338
71	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium (V)	JIS 1253
72	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Aluminium (Al)	ASTM E3047
73	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Boron (B)	ASTM E3047
74	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Carbon (C)	ASTM E3047
75	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Chromium (Cr)	ASTM E3047

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76	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Cobalt (Co)	ASTM E3047
77	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Copper (Cu)	ASTM E3047
78	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Iron (Fe)	ASTM E3047
79	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Manganese (Mn)	ASTM E3047
80	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Molybdenum (Mo)	ASTM E3047
81	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Niobium (Nb)	ASTM E3047
82	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Phosphorus (P)	ASTM E3047
83	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Silicon (Si)	ASTM E3047
84	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Sulfur (S)	ASTM E3047
85	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Titanium (Ti)	ASTM E3047
86	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Tungsten (W)	ASTM E3047
87	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Vanadium (V)	ASTM E3047
88	CHEMICAL- METALS & ALLOYS	Nickel Based Alloys	Zirconium (Zr)	ASTM E3047
89	CHEMICAL- METALS & ALLOYS	Pure Copper	Bismuth (Bi)	BS EN 15079
90	CHEMICAL- METALS & ALLOYS	Pure Copper	Lead (Pb)	BS EN 15079
91	CHEMICAL- METALS & ALLOYS	Pure Copper	Phosphorus (P)	BS EN 15079
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon (C)	ASTM E1086
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium (Cr)	ASTM E1086
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper (Cu)	ASTM E1086

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95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese (Mn)	ASTM E1086
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum (Mo)	ASTM E1086
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel (Ni)	ASTM E1086
98	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus (P)	ASTM E1086
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon (Si)	ASTM E1086
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur (S)	ASTM E1086
101	CHEMICAL- METALS & ALLOYS	Tool Steel	Aluminium (Al)	JIS G1253
102	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon (C)	JIS G1253
103	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium (Cr)	JIS G1253
104	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt (Co)	JIS G1253
105	CHEMICAL- METALS & ALLOYS	Tool Steel	Copper (Cu)	JIS G1253
106	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese (Mn)	JIS G1253
107	CHEMICAL- METALS & ALLOYS	Tool steel	Molybdenum (Mo)	JIS G1253
108	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel (Ni)	JIS G1253
109	CHEMICAL- METALS & ALLOYS	Tool steel	Phosphorus (P)	JIS G1253
110	CHEMICAL- METALS & ALLOYS	Tool steel	Silicon (Si)	JIS G1253
111	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulfur (S)	JIS G1253
112	CHEMICAL- METALS & ALLOYS	Tool Steel	Titanium (Ti)	JIS G1253
113	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten (W)	JIS G1253

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114	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium (V)	JIS G1253
115	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Alloys	Tensile Testing - Elongation	ASTM B557
116	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Alloys	Tensile Testing - Reduction Area	ASTM B557
117	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Alloys	Tensile Testing - Ultimate tensile strength	ASTM B557
118	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Alloys	Tensile Testing - Yield Stress	ASTM B557
119	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Tensile Testing - 0.2% Proof Stress	IS 1608-1
120	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Tensile Testing - %Reduction in Area	ASTM E8/E8M
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Tensile Testing - 0.2% Proof Stress	ASTM E8/E8M
122	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Tensile Testing - Elongation	IS 1608-1
123	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Tensile Testing - Reduction Area	IS 1608-1
124	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Tensile Testing - Ultimate tensile strength	ASTM E8/E8M
125	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Tensile Testing - Ultimate tensile strength	IS 1608-1
126	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Tensile Testing - Yield Stress	ASTM E8/E8M
127	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Tensile Testing - Yield Stress	IS 1608-1

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128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Tensile Testing -% Elongation	ASTM E8/E8M
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Hardness Testing - Brinell Hardness (HBW 10/3000)	ASTM E10
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Hardness Testing - Brinell Hardness (HBW 2.5/187.5)	ASTM E10
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Hardness Testing - Brinell Hardness (HBW 5/750)	ASTM E10
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Hardness Testing - Leeb Hardness (HLD)	ASTM A956/A956M-17a
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Hardness Testing - Micro-vickers Hardness (HV1)	ASTM E384
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Hardness Testing - Rockwell Hardness (HRA)	ASTM E18
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Hardness Testing - Rockwell Hardness (HRBW)	ASTM E18
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Hardness Testing - Rockwell Hardness (HRC)	ASTM E18
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Impact Testing - Charpy U	ASTM E23
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Impact Testing - Charpy-V	ASTM E23
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Testing - 0.2% Proof Stress	ASTM A370
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Testing - Elongation	ASTM A370
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Testing - Reduction Area	ASTM A370

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142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Testing - Ultimate tensile strength	ASTM A370
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Testing - Yield Stress	ASTM A370
144	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Structure (Form, Size, Distribution, Nodularity, Nodule Count)	ASTM A 247
145	MECHANICAL-METALLOGRAPHY TEST	Coating / Plating on metals	Coating Thickness (Microscopic Method)	ASTM B487-85,
146	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous Metals, Alloys and Products	Average Grain Size (Comparison Method)	ASTM E 112: 2013, IS 4748
147	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous Metals, Alloys and Products	Macro Etch Test	IS 11371
148	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous Metals, Alloys and Products	Microstructure	ASM Atlas of Microstructure, ASM Handbook vol-9
149	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous Products	Mass per component in Millipore Test (Gravimetric Method)	ISO 16232
150	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals, Alloys and Products	Case Depth (Microscopic Method)	IS 6416
151	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, Alloys and Products	Depth of de-carburization (Microscopic Method)	IS 6396: 2000, ASTM E1077
152	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals, Alloys and Products	Effective Case Depth (Hardness Traverse Method)	IS 6416-1988, ISO 18203
153	MECHANICAL-METALLOGRAPHY TEST	Non-magnetic coating on Magnetic Material	Coating Thickness (Magnetic Method)	ISO 2178-2016, IS 3203

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Site Facility				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Aluminium, Copper, Nickel, Cobalt based Alloys	Hardness Testing - Leeb Hardness (HLD)	ASTM A956/A956M-17a