National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MAGNA CASTING AND MACHINE WORKS PVT. LTD.- METALLURGICAL LAB, GAT NO. 777, AT POST; VELU, TAL. BHOR, PUNE, MAHARASHTRA, 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	Carbon Steel & Alloy Steel	Niobium	IS 8811
2	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Niobium	JIS G1253
3	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Phosphorus	JIS G1253
4	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Silicon	JIS G1253
5	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Sulphur	JIS G1253
6	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Titanium	JIS G1253
7	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Tungsten	JIS G1253
8	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Nickel	JIS G1253
9	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Carbon	JIS G1253
10	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Chromium	JIS G1253
11	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Cobalt	JIS G1253
12	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Manganese	JIS G1253
13	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Vanadium	JIS G1253
14	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Molybdenum	JIS G1253
15	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Aluminium	JIS G1253
16	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Copper	JIS G1253
17	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Molybdenum	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Molybdenum	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Nickel	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Nickel	IS 8811
21	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Niobium	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Phosphorus	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Phosphorus	IS 8811
24	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Silicon	IS 8811
25	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Sulphur	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Sulphur	IS 8811
27	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Titanium	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Titanium	IS 8811
29	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Vanadium	IS 8811
30	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Aluminium	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Aluminium	IS 8811
32	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Carbon	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Carbon	IS 8811
34	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Chromium	ASTM E415
35	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Chromium	IS 8811
36	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Cobalt	ASTM E415
37	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Cobalt	IS 8811

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38	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Copper	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Copper	IS 8811
40	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Manganese	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Manganese	IS 8811
42	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Silicon	ASTM E415
43	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Vanadium	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Cobalt	ASTM A751
45	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Phosphorus	ASTM A751
46	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Aluminium	ASTM A751
47	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Carbon	ASTM A751
48	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Carbon	ASTM E1086
49	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Carbon	IS 9879
50	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Carbon	JIS G1253
51	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Chromium	ASTM A751
52	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Chromium	ASTM E1086
53	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Chromium	IS 9879
54	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Chromium	JIS G1253
55	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Cobalt	JIS G1253
56	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Copper	ASTM A751

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57	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Copper	ASTM E1086
58	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Copper	IS 9879
59	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Copper	JIS G1253
60	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Manganese	ASTM A751
61	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Manganese	ASTM E1086
62	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Manganese	IS 9879
63	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Manganese	JIS G1253
64	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Molybdenum	ASTM A751
65	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Molybdenum	ASTM E1086
66	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Molybdenum	IS 9879
67	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Molybdenum	JIS G1253
68	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Nickel	ASTM A751
69	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Nickel	ASTM E1086
70	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Nickel	IS 9879
71	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Nickel	JIS G1253
72	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Niobium	JIS G1253
73	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Nitrogen	ASTM A751
74	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Nitrogen	JIS G1253
75	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Phosphorus	ASTM E1086

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76	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Phosphorus	IS 9879
77	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Phosphorus	JIS G1253
78	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Silicon	ASTM A751
79	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Silicon	ASTM E1086
80	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Silicon	IS 9879
81	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Silicon	JIS G1253
82	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Sulphur	ASTM A751
83	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Sulphur	ASTM E1086
84	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Sulphur	IS 9879
85	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Sulphur	JIS G1253
86	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Titanium	ASTM A751
87	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Titanium	JIS G1253
88	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Tungsten	ASTM A751
89	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Tungsten	JIS G1253
90	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Vanadium	ASTM A751
91	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Vanadium	JIS G1253
92	CHEMICAL- METALS & ALLOYS	Stainless steel alloy	Aluminium	JIS G1253
93	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys	Tensile Test- Proof Strength	ASTM B557M

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94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys	Tensile Test- Tensile Strength	ASTM B557M
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys	Tensile Test- Yield Strength	ASTM B557M
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys	Tensile Test-% Elongation	ASTM B557M
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum & its alloys	Tensile Test-%Reduction in Area	ASTM B557M
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous metals	Vickers Hardness Test - HV10	IS 1501 (Part 1)
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous metals	Vickers Hardness Test - HV10	DS/EN ISO 6507-1
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous metals	Vickers Hardness Test - HV5	ASTM E92
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous metals	Vickers Hardness Test - HV5	DS/EN ISO 6507-1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous metals	Vickers Hardness Test - HV5	IS 1501 (Part 1)
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous metals	Vickers Hardness Test - HV10	ASTM E92
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Charpy Impact (V- Notch & U-Notch) Test (-) 110°C to 35°C & (-)196°C	ASTM E23
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Charpy Impact (V- Notch & U-Notch) Test (-) 110°C to 35°C & (-)196°C	IS 1757 (Part 1)
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Charpy Impact test : Lateral Expansion Measurement	ASTM E23
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Charpy Impact test : Lateral Expansion Measurement	DS/EN ISO 148

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108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Charpy Impact test : Lateral Expansion Measurement	IS 1757 (Part 1)
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Proof Strength	ASTM E8/E8M
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Proof Strength	DS/EN ISO 6892-1
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Proof Strength	IS 1608 part 1
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Proof Strength	ASME Sec.IX
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Tensile Strength	ASTM E8/E8M
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Tensile Strength	DS/EN ISO 6892-1
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Tensile Strength	IS 1608 part 1
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Tensile Strength	ASME Sec.IX
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test -Tensile strength	DS/EN ISO 4136
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Yield Strength	IS 1608 part 1
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test-% Elongation	ASTM E8/E8M
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test-% Elongation	DS/EN ISO 6892-1
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test-% Elongation	IS 1608 part 1

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122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test-% Elongation	ASME Sec.IX
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test-% Elongation	DS/EN ISO 4136
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test-%Reduction in Area	ASTM E8/E8M
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test-%Reduction in Area	DS/EN ISO 6892-1
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test-%Reduction in Area	IS 1608 part 1
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test-%Reduction in Area	ASME Sec.IX
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Bend Test	ASME Sec.IX
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Bend Test	ASTM E190
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Bend Test	ASTM E290
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Bend Test	IS 1599
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Brinell Hardness Test (2.5/187.5)	ASTM E10
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Brinell Hardness Test (2.5/187.5)	IS 1500 (Part 1)
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Brinell Hardness Test (2.5/187.5)	ISO 6506-1
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Charpy Impact (V- Notch & U-Notch) Test (-) 110°C to 35°C & (-)196°C	DS/EN ISO 148

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136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Yield Strength	ASTM E8/E8M
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test-%Reduction in Area	DS/EN ISO 4136
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Yield Strength	ASME Sec.IX
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Yield Strength	DS/EN ISO 6892-1
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Test- Yield Strength	DS/EN ISO 4136
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Charpy Impact (V- Notch & U-Notch) Test (-) 110°C to 35°C & (-)196°C	ASTM A370
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Charpy Impact test : Lateral Expansion Measurement	ASTM A370
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Tensile Test- Proof Strength	ASTM A370
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Tensile Test- Tensile Strength	ASTM A370
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Tensile Test- Yield Strength	ASTM A370
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Tensile Test-% Elongation	ASTM A370
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Tensile Test-%Reduction in Area	ASTM A370
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Bend Test	ASTM A370
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Brinell Hardness Test (2.5/187.5)	ASTM A370

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150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & alloys -Threaded Fasteners	Proof Load Test (Compression mode)	ASTM A370
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Threaded Fasteners	Proof Load Test (Compression mode)	ASTM F606/F606M
152	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non ferrous metals, alloys	Macro-structure Test	ASTM E340
153	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous metals	Grain size Test	ASTM E407
154	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous metals	Microstructure Test	ASTM E407
155	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous metals, Ni-Base alloys	Macro-structure Test	ASTM A604
156	MECHANICAL-METALLOGRAPHY TEST	Ferrous and non ferrous metals & Nickel Base alloys	Microstructure Test	ASM Handbook Vol.9
157	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Grain size Test	IS 4748
158	MECHANICAL-METALLOGRAPHY TEST	Ferrous metal & steel	Inclusion Test	EN 10247
159	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals & Nickel Base alloys	Grain size Test	ASTM E112
160	MECHANICAL-METALLOGRAPHY TEST	Metals & Alloys, Steel, Alloy Steel, Duplex steel & Stainless Steel	Inclusion or second phase constituent by Image Analysis	ASTM E1245
161	MECHANICAL-METALLOGRAPHY TEST	Metals & Alloys,Steel, Alloy Steel, Duplex steel & Stainless Steel	Ferrite content	ASTM E562
162	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburization	ASTM E1077
163	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Test	IS 4163
164	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Test	ASTM E45
165	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Test	ISO 4967
166	MECHANICAL-METALLOGRAPHY TEST	Steel products & alloys	Macro-structure Test	ASTM E381
167	MECHANICAL-METALLOGRAPHY TEST	Steel products & alloys	Macro-structure Test	ISO 4969

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168	MECHANICAL-METALLOGRAPHY TEST	Steel, Alloy Steel, Stainless Steel	Depth of Decarburization	DS/EN ISO 3887
169	MECHANICAL-METALLOGRAPHY TEST	Steel, Alloy Steel, Stainless Steel	Depth of decarburization	IS 6396
170	MECHANICAL-METALLOGRAPHY TEST	Steel, Stainless steel	Grain size Test	DS/EN ISO 643