National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SGS INDIA PVT LTD - TRANSPORTATION, PLOT NO. 28 B/1 (SP), 28 B/2 (SP), SECOND MAIN ROAD, CHENNAI, TAMIL NADU, 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- CORROSION TESTS	All Electrical and electronics component.	Resistance to Corrosion	JSS 55555 (Test Number 9)
2	CHEMICAL- CORROSION TESTS	Metallic Components	Resistance to Corrosion decorative copper/ nickel/ chromium or nickel/ chromium coatings on steel, zinc alloys, aluminium alloys and plastic designed for severe service.	ASTM B 368
3	CHEMICAL- CORROSION TESTS	Metallic Components	Resistance to Corrosion on metals and coated metals	ASTM B117
4	CHEMICAL- CORROSION TESTS	Metallic Components	Resistance to Corrosion on metals and coated metals	ASTM G85 Annex A1 & A2
5	CHEMICAL- CORROSION TESTS	Metallic Components	Resistance to Corrosion on metals and coated metals	ISO 9227
6	CHEMICAL- CORROSION TESTS	Metallic Components	Resistance to Corrosion on metals and coated metals	JIS Z 2371
7	CHEMICAL- CORROSION TESTS	Mettalic products and Raw Materials	Resistance to Corrosion on metals and coated metals	IEC 60068-2-52
8	CHEMICAL- CORROSION TESTS	Mettalic products and Raw Materials	Salt spray	IEC 60068-2-11
9	CHEMICAL- METALS & ALLOYS	Copper Alloys	Manganese	BS EN 15079
10	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	IS 8811
11	CHEMICAL- METALS & ALLOYS	Alloy Steel	Arsenic	IS 8811
12	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	IS 8811
13	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	IS 8811
14	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	IS 8811
15	CHEMICAL- METALS & ALLOYS	Alloy Steel	Cobalt	IS 8811
16	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	IS 8811
17	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	IS 8811

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18	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	IS 8811
19	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	IS 8811
20	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	IS 8811
21	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorous	IS 8811
22	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	IS 8811
23	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	IS 8811
24	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tin	IS 8811
25	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	IS 8811
26	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	IS 8811
27	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Beryllium	ASTM E 1251 (a)
28	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Bismuth	ASTM E 1251 (a)
29	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Boron	ASTM E 1251 (a)
30	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Chromium	ASTM E 1251 (a)
31	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Copper	ASTM E 1251 (a)
32	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Iron	ASTM E 1251 (a)
33	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Lead	ASTM E 1251 (a)
34	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Magnesium	ASTM E 1251 (a)
35	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Manganese	ASTM E 1251 (a)
36	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Nickel	ASTM E 1251 (a)

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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
37	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Silicon	ASTM E 1251 (a)
38	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Tin	ASTM E 1251 (a)
39	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Titanium	ASTM E 1251 (a)
40	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Vanadium	ASTM E 1251 (a)
41	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Zinc	ASTM E 1251 (a)
42	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Zirconium	ASTM E 1251 (a)
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E 1999
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E 1999
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E 1999
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E 1999
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E 1999
48	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E 1999
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 1999
50	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E 1999
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E 1999
52	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E 1999
53	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E 1999
54	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E 1999
55	CHEMICAL- METALS & ALLOYS	Cast Iron and Alloys	Aluminium	IS 15338

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56	CHEMICAL- METALS & ALLOYS	Copper Alloys	Aluminium	BS EN 15079
57	CHEMICAL- METALS & ALLOYS	Copper Alloys	Antimony	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	Copper Alloys	Arsenic	BS EN 15079
59	CHEMICAL- METALS & ALLOYS	Copper Alloys	Bismuth	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	Copper Alloys	Cobalt	BS EN 15079
61	CHEMICAL- METALS & ALLOYS	Copper Alloys	Iron	BS EN 15079
62	CHEMICAL- METALS & ALLOYS	Copper Alloys	Lead	BS EN 15079
63	CHEMICAL- METALS & ALLOYS	Copper Alloys	Nickel	BS EN 15079
64	CHEMICAL- METALS & ALLOYS	Copper Alloys	Phosphorus	BS EN 15079
65	CHEMICAL- METALS & ALLOYS	Copper Alloys	Silicon	BS EN 15079
66	CHEMICAL- METALS & ALLOYS	Copper Alloys	Silver	BS EN 15079
67	CHEMICAL- METALS & ALLOYS	Copper Alloys	Sulphur	BS EN 15079
68	CHEMICAL- METALS & ALLOYS	Copper Alloys	Tin	BS EN 15079
69	CHEMICAL- METALS & ALLOYS	Copper Alloys	Zinc	BS EN 15079
70	CHEMICAL- METALS & ALLOYS	Copper and its alloys	Chromium	BS EN 15079
71	CHEMICAL- METALS & ALLOYS	copper and its alloys	Magnesium	BS EN 15079
72	CHEMICAL- METALS & ALLOYS	Copper and its alloys	Selenium	BS EN 15079
73	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Carbon	IS 15338
74	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Chromium	IS 15338

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75	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Copper	IS 15338
76	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Manganese	IS 15338
77	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Molybdenum	IS 15338
78	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Nickel	IS 15338
79	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Phosphorus	IS 15338
80	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Silicon	IS 15338
81	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Sulphur	IS 15338
82	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Vanadium	ASTM E1999
83	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Vanadium	IS 15338
84	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879
85	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 9879
86	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879
87	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 9879
88	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879
89	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879
90	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	IS 9879
91	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 9879
92	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879
93	CHEMICAL- METALS & ALLOYS	Zinc Alloys	Cadmium	IS 2599

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94	CHEMICAL- METALS & ALLOYS	Zinc Alloys	Copper	IS 2599
95	CHEMICAL- METALS & ALLOYS	Zinc Alloys	Iron	IS 2599
96	CHEMICAL- METALS & ALLOYS	Zinc Alloys	Lead	IS 2599
97	CHEMICAL- METALS & ALLOYS	Zinc Alloys	Tin	IS 2599
98	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Alternating Climates	ISO 16750-4 (Damp Heat Cyclic)
99	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Alternating Temperature	ISO 16750-4 (Temp step)
100	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Cold test	IEC 60068-2-1 (Test A)
101	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Cold test	IS 9000
102	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Cold test	ISO 16750-4 (Low Temp)
103	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Constant Climates	IEC 60068-2-78
104	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Constant Climates	ISO 16750-4 (Damp Heat and Steady)
105	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Contamination	JSS 55555 (Test no 6)
106	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Damp Heat Test	IEC 60068-2-30
107	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Damp Heat Test	JSS 55555 (Test no 10)
108	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Heat	IEC 60068-2-2 (Test B)

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109	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Heat	ISO 16750-4 (High Temp)
110	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	High Temperature	JSS 55555 (Test no 17)
111	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Low Temperature	JSS 55555 (Test no 20)
112	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Rapid Temperature	JSS 55555 (Test no 22)
113	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Automotive, Electrical and Electronic components	Tropical Exposure	JSS 55555 (Test no 27)
114	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All automotive, Electrical and electronics component.	Mechanical Shock Test	IEC 60068- 2- 27
115	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All automotive, Electrical and electronics component.	Mechanical Shock Test	IS 9000 (Part 7 / Section 1)
116	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All automotive, Electrical and electronics component.	Mechanical Shock Test	ISO 16750-3
117	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All automotive, Electrical and electronics component.	Random Vibration test	IEC 60068-2-64
118	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All automotive, Electrical and electronics component.	Random Vibration test	IEC 61373
119	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All automotive, Electrical and electronics component.	Sine vibration and General Test	IEC 60068-2-6
120	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All automotive, Electrical and electronics component.	Sine vibration and General Test	IS 9000 (Part 8)
121	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All automotive, Electrical and electronics component.	Sine vibration and General Test	ISO 10055
122	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All automotive, Electrical and electronics component.	Sine vibration and General Test	JIS D 1601

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123	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Electrical and electronics component.	Shock Test	JSS 55555 (Test Number 24 - Procedure 2)
124	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	All Electrical and electronics component.	Vibration	JSS 55555 (Test Number 28)
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Brinell Hardness 10 / 3000	ISO 898-1
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Brinell Hardness 10 / 3000	ISO 898-3
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Brinell Hardness 2.5 / 187.5	ISO 898-1
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Brinell Hardness 2.5 / 187.5	ISO 898-3
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Brinell Hardness 5 / 750	ISO 898-1
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Brinell Hardness 5 / 750	ISO 898-3
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Rockwell Hardness	ISO 898-1
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Rockwell Hardness	ISO 898-1
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Rockwell Hardness	ISO 898-1
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Rockwell Hardness	ISO 898-2
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Rockwell Hardness	ISO 898-2
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Rockwell Hardness	ISO 898-2

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137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Rockwell Hardness	ISO 898-3
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Rockwell Hardness	ISO 898-3
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Rockwell Hardness	ISO 898-3
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Vickers Hardness HV 10	ISO 898-1
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Vickers Hardness HV 10	ISO 898-2
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Vickers Hardness HV 10	ISO 898-3
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Vickers Hardness HV 30	ISO 898-1
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Vickers Hardness HV 30	ISO 898-2
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Vickers Hardness HV 30	ISO 898-3
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Vickers Hardness HV 5	ISO 898-1
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Vickers Hardness HV 5	ISO 898-2
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - carbon steel and alloy steel	Vickers Hardness HV 5	ISO 898-3
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners- Carbon Steel and Alloy steel	Decarburization determination by hardness method	ISO 898-1
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners- Carbon steel and alloy steel	Micro Vickers Hardness HV 0.3	ISO 898-1

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151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous ,carbon and alloy steel fasteners - Nut	Proof load test	ISO 898-2
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and carbon and alloy steel - Bolt & Screw	Proof load test	ISO 898-1
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Carbon and alloy steel fasteners - Bolt & Screw	Tensile Testing at ambient temperature	ISO 898-1
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw materials	Brinell Hardness 2.5 / 187.5	ASTM E 10
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	% Elongation	IS 1608 - Part 1
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	% Reduction in Area	ASTM E8/ E8M (a)
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	% Reduction in Area	IS 1608 - Part 1
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	% Reduction in Area	ISO 6892-1
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	0.2% Proof strength	ASTM E8/E8 M (a)
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	0.2% Proof strength	IS 1608 - Part1
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	0.2% Proof strength	ISO 6892-1
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Brinell Hardness 10 / 3000	ASTM E 10
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Brinell Hardness 10 / 3000	IS 1500 Part 1
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Brinell Hardness 5 / 750	ASTM E 10

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165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Brinell Hardness 5 / 750	IS 1500 Part 1
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Brinell Hardness 2.5 / 187.5	IS 1500 Part 1
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Micro Vickers Hardness HV 0.2	ASTM E 92
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Micro Vickers Hardness HV 0.2	ASTM E 384
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Micro Vickers Hardness HV 0.2	IS 1501 Part 1
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Micro Vickers Hardness HV 0.2	ISO 6507-1
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Micro Vickers Hardness HV 0.5	ASTM E 384
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Micro Vickers Hardness HV 0.5	ASTM E 92
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Micro Vickers Hardness HV 0.5	IS 1501 Part 1
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Micro Vickers Hardness HV 0.5	ISO 6507-1
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Micro Vickers Hardness HV 1.0	ASTM E 384
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Micro Vickers Hardness HV 1.0	ISO 1501 Part 1
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Micro Vickers Hardness HV 1.0	ISO 6507-1
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Rockwell Hardness	ASTM E18

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179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Rockwell Hardness	ASTM E18
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Rockwell Hardness	IS 1586 Part 1
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Rockwell Hardness	IS 1586 Part 1
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Rockwell Hardness	IS 1586 Part 1
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Rockwell Hardness	ISO 6508-1
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Rockwell Hardness	ISO 6508-1
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Rockwell Hardness	ISO 6508-1
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Tensile Testing at ambient temperature - Tensile strength	ASTM E8/ E8M(a)
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Tensile Testing at ambient temperature - Tensile strength	IS 1608-Part 1
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Tensile Testing at ambient temperature - Tensile strength	ISO 6892-1
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Tensile Testing at ambient temperature -% Elongation	ASTM E8/ E8M (a)
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Tensile Testing at ambient temperature -% Elongation	ISO 6892-1
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Vickers Hardness HV 10	ASTM E92
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Vickers Hardness HV 10	ISO 6507-1

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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
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Vickers Hardness HV 30	ASTM E 92
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Vickers Hardness HV 30	IS 1501 Part 1
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Vickers Hardness HV 30	ISO 6507-1
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Vickers Hardness HV 5	ASTM E92
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Vickers Hardness HV 5	IS 1501 Part 1
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Vickers Hardness HV 5	ISO 6507-1
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Vickers Hardness HV 10	IS 1501 Part 1
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Yield strength	ASTM E 8/ E8M (a)
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Yield strength	IS 1608 - Part 1
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw material	Yield strength	ISO 6892-1
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw materials	Micro Vickers Hardness HV 1.0	ASTM E 92
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- ferrous components and raw materials	Rockwell Hardness	ASTM E18
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	% Elongation	ASTM A 370
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	% Reduction in Area	ASTM A 370

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207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	0.2% Proof strength	ASTM A 370
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Brinell Hardness 10 / 3000	ASTM A 370
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Brinell Hardness 2.5 / 187.5	ASTM A 370
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Brinell Hardness 5 / 750	ASTM A 370
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Rockwell Hardness	ASTM A 370
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Rockwell Hardness	ASTM A 370
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Rockwell Hardness	ASTM A370
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Tensile Testing at ambient temperature - Tensile strength	ASTM A 370
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Yield strength	ASTM A 370
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced steel bars and wires - up to 25 mm diameter	Tensile strength	IS 1608 -Part 1
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced steel bars and wires - up to 25 mm diameter	Yield strength	IS 1608 - Part 1
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced steel bars and wires- up to 25 mm diameter	Tensile strength/ yield strength ratio	IS 1608-Part 1
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced steel bars and wires- up to 25mm diameter	% Elongation	IS 1608 - Part 1
220	MECHANICAL-METALLOGRAPHY TEST	carbon and alloy steel	Micro Examination	ASTM F 2282 (spherodisation rating)

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221	MECHANICAL-METALLOGRAPHY TEST	Cast iron material	Graphite Analysis	ASM Handbook Volume 9
222	MECHANICAL-METALLOGRAPHY TEST	Cast iron material	Graphite Analysis	ASTM A 247
223	MECHANICAL-METALLOGRAPHY TEST	Cast iron material	Graphite Analysis	IS 7754
224	MECHANICAL-METALLOGRAPHY TEST	Cast iron material	Graphite Analysis	ISO 945-1
225	MECHANICAL-METALLOGRAPHY TEST	Fasteners of carbon and alloy steel	Depth of Decarburization	ISO 898-1 (section 9.10.2)
226	MECHANICAL-METALLOGRAPHY TEST	Ferrous and non ferrous material	Average Grain size	ASTM E 112
227	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous components	Coating Thickness (1000X)	ASTM B 487
228	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous components	Coating Thickness (1000X)	ISO 1463
229	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous components	Coating Thickness (100X)	ASTM B 487
230	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous components	Coating Thickness (100X)	ISO 1463
231	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous components	Coating Thickness (200X)	ASTM B 487
232	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous components	Coating Thickness (200X)	ISO 1463
233	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous components	Coating Thickness (500X)	ASTM B 487
234	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous components	Coating Thickness (500X)	ISO 1463
235	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous components	Micro Examination	ASM Handbook Volume 9
236	MECHANICAL-METALLOGRAPHY TEST	Ferrous material	Average Grainsize	IS 4748
237	MECHANICAL-METALLOGRAPHY TEST	Ferrous material	Average Grainsize	ISO 643
238	MECHANICAL-METALLOGRAPHY TEST	Ferrous material	Case Depth Measurement-Total Case Depth	IS 6416
239	MECHANICAL-METALLOGRAPHY TEST	Ferrous material	Case Depth Measurement-Total Case Depth	SAJE423

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240	MECHANICAL-METALLOGRAPHY TEST	Ferrous material	Depth of Decarburization	ASTM E 1077 (Section 7.2 and 7.3)
241	MECHANICAL-METALLOGRAPHY TEST	Ferrous material	Depth of Decarburization	IS 6396
242	MECHANICAL-METALLOGRAPHY TEST	Flat washers of carbon steel and alloy steel	Depth of Decarburization	ISO 898-3
243	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion content in steel	ASTM E 45(a)
244	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion content in steel	IS 4163
245	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion content in steel	ISO 4967
246	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Painted Panels & Products, Plated & Coated Products	Adhesion Cross Cut test	ASTM D 3359
247	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Painted Panels & Products, Plated & Coated Products	Adhesion cross cut test	ISO 2409