National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NARANG METALLURGICAL & SPECTRO SERVICES, 1E/18, GROUND FLOOR, JHANDEWALAN EXTENSION, NEW DELHI, DELHI, 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	Metallic products and Raw Materials	Neutral Salt Spray Test (NSS)	ASTM B117
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coatings on Ferrous	Adhesion Test	IS 2629
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coatings on Ferrous	Determination of Mass of Zinc coating on Zinc coated iron & Steel Article	IS 6745
4	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coatings on Ferrous	Uniformity of coating on Zinc coated Articles	IS 2633
5	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coatings on Tin Plate	Mass of Tin Coating on Tin Plate	IS 1327
6	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Antimony	BS EN 15079
7	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Chromium	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Chromium	IS 11035
9	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Copper	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Copper	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Copper	IS 11035
12	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Iron	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Iron	IS 11035
14	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Lead	ASTM E1251
15	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Magnesium	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Magnesium	IS 11035
17	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Manganese	ASTM E1251

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18	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Manganese	IS 11035
19	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Nickel	ASTM E1251
20	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Silicon	ASTM E1251
21	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Silicon	IS 11035
22	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Titanium	ASTM E1251
23	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Titanium	IS 11035
24	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Vanadium	ASTM E1251
25	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Zinc	ASTM E1251
26	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Zinc	IS 11035
27	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloy	Zirconium	ASTM E1251
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E 1999
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 1999
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338
33	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E 1999
34	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E 1999
35	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E 1999
36	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 15338

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37	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 15338
38	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Aluminum	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Aluminum	IS 8811
40	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Aluminum	JIS G 1253
41	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Carbon	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Carbon	IS 8811
43	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Chromium	ASTM E 415
44	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Chromium	IS 8811
45	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Copper	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Copper	IS 8811
47	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Manganese	ASTM E 415
48	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Manganese	IS 8811
49	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Molybdenum	ASTM E 415
50	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Molybdenum	IS 8811
51	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Nickel	ASTM E 415
52	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Nickel	IS 8811
53	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Phosphorus	ASTM E415
54	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Phosphorus	IS 8811
55	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Phosphorus	JIS G 1253

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56	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Silicon	ASTM E415
57	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Silicon	IS 8811
58	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Silicon	JIS G 1253
59	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Sulphur	ASTM E 415
60	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Sulphur	IS 8811
61	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Vanadium	ASTM E 415
62	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Vanadium	IS 8811
63	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Zinc	BS EN 15079
64	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Aluminium	BS EN 15079
65	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Arsenic	BS EN 15079
66	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Bismuth	BS EN 15079
67	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Iron	BS EN 15079
68	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Lead	BS EN 15079
69	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Manganese	BS EN 15079
70	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Nickel	BS EN 15079
71	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Phosphorus	BS EN 15079
72	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Silicon	BS EN 15079
73	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Silver	BS EN 15079
74	CHEMICAL- METALS & ALLOYS	Pure Copper Alloys, Bronzes & Brasses	Tin	BS EN 15079

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75	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	JIS G 1253
76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
78	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
79	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G1253
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G1253
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G1253
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G1253
88	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
89	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G1253
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086

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94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
98	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G1253
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G1253
101	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G 1253
102	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G 1253
103	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G 1253
104	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G 1253
105	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G 1253
106	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS G 1253
107	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS G 1253
108	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G 1253
109	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G 1253
110	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G 1253
111	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Aluminium	ISO 3815-1
112	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Cadmium	ISO 3815-1

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113	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Copper	ISO 3815-1
114	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Iron	ISO 3815-1
115	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Lead	ISO 3815-1
116	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Lead	ISO 3815-1
117	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Magnesium	ISO 3815-1
118	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Nickel	ISO 3815-1
119	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloy	Tin	ISO 3815-1
120	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Color	IS 101 (P-4/ S-2)
121	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Consistency	IS 101 (Part-1/ Sec-5)
122	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Drying time a) Surface Dry	IS 101 (P-3/Sec-1)
123	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Drying Time b) Hard Dry	IS 101 (P-3/Sec-1)
124	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Fineness of grind	IS 101 (P-3/Sec5)
125	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Finish	IS 101 (P-3/sec-4)
126	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Flash Point	IS 101(P-1, Sec-6)
127	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Flexibility and Adhesion tests (Bend Test)	IS 101 (P-5/sec-2)
128	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Flexibility and Adhesion tests (Scratch Hardness)	IS 101 (P-5/sec-2)
129	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Gloss value at 60°	IS 101 (P-4/Sec4)
130	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Mass per 10 Liter	IS 101(P-1, Sec-7)
131	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Pigment content	IS 101(P-8/Sec2)

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132	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Resistance to Humidity under conditions of condensation	IS 101 (P-6/Sec1)
133	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Resistance to salt spray	IS 101 (P-6/sec-1)
134	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Total non volatile content	IS 101 (Part-8/ Sec-2)
135	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Viscosity by ford cup	IS 101 (P-1/Sec5)
136	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Volatile matter	IS 101(P-2, Sec-2)
137	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminum Paint, Primers	Water Content	IS 101(P-2, Sec-1)
138	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, Synthetic Enamel under coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminums Paint, Primers	Drying time c) Tack free	IS 101 (P-3/Sec-1)
139	CHEMICAL- PLASTIC & RESINS	Plastics & polymers	Polymer Identification	ASTM E1252
140	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber	Ash Content	IS 3400 (P-22)
141	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber	Identification of Rubber	IS 3400 (P-22)
142	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nuts	Proof Load test	IS 1367 (P-6)
143	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bolts, Screws & Studs	Proof Load test	IS 1367 (P-3)
144	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bolts, Screws	Wedge Load test	IS 1367 (P-3)
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bolts, Screws	Wedge Load test	ISO 898(P-1)
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bolts, Screws & Studs	Proof load	ISO898(P-1)
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bolts, Screws & Studs	Ultimate tensile Load test	ISO 898(P-1)

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148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolts, Screws, Studs.	Ultimate tensile Load test	IS 1367 (P-3)
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Steels	Bend test	IS 1599
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous steels	Bend test	ISO 7438
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Sheet	Erichsen Cupping test	IS 10175
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Sheet	Erichsen Cupping test	ISO 20482
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Wire	Torsion Test	IS 1717
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Wire	Torsion Test	ISO 7800
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Wire	Wrapping Test	IS 1755
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Wire	Wrapping Test	ISO 7802
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Products	Rockwell Hardness Number (C Scale)	IS 1586 (P-1)
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Products	Rockwell Hardness Number (C Scale)	ISO 6508-1
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products)	Brinell Hardness Number (HBW) 2.5/187.5	ISO 6506-1
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products)	Brinell Hardness Number (HBW) 2.5/62.5	ISO 6506-1
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products)	Offset Proof Stress (0.2 %)	IS 1608 (P-1)

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162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products)	Offset Proof Stress (0.2 %)	ISO 6892 -1
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products)	Reduction of Area	IS 1608 (P-1)
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products)	Rockwell Hardness Number (A Scale)	IS 1586 (P-1)
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products)	Rockwell Hardness Number (A Scale)	ISO 6508-1
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products)	Rockwell Hardness Number (B Scale)	ISO 6508-1
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products)	Tensile strength	ISO 6892 -1
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products)	Yield stress	ISO 6892 -1
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products, Welding Steel)	Brinell Hardness Number (HBW) 2.5/187.5	IS 1500 (P-1)
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products, Welding Steel)	Brinell Hardness Number (HBW) 2.5/62.5	IS 1500 (P-1)
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products, Welding Steel)	Rockwell Hardness Number (B Scale)	IS 1586 (P-1)
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products, Welding Steel)	Vickers Hardness Number (HV-1)	IS 1501 (P-1)
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products, Welding Steel)	Vickers Hardness Number (HV-1)	ISO 6507-1
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products, Welding Steel)	Vickers Hardness Number (HV-30)	IS 1501 (P-1)
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products, Welding Steel)	Vickers Hardness Number (HV-30)	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
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products, Welding Steel)	Vickers Hardness Number (HV-5)	IS 1501 (P-1)
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products, Welding Steel)	Vickers Hardness Number (HV-5)	ISO 6507-1
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products, Welding Steel)	Tensile strength	IS 1608 (P-1)
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous materials, alloys & products, Welding Steel)	Yield stress	IS 1608 (P-1)
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nuts	Proof Load	ISO 898(P-2)
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Impact, Charpy (V) (25°C to -30°C)	IS 1757 (P-1)
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Impact, Charpy (V) (25°C to -30°C)	ISO 148-1
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Flats, Plates, Sheets, Angles, bars, rods	Elongation	IS 1608 (P-1)
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Flats, Plates, Sheets, bars, rods	Elongation	ISO 6892 -1
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Flats, Plates, Sheets, bars, rods	Reduction of Area	ISO 6892 -1
186	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous materials, alloys & products	Case Depth (By Microscopic Method at 100x)	IS 6416 (CL 5 & 8)
187	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous materials, alloys & products	Macro Examination	IS 13015
188	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous materials, alloys & products	Micro Structure	ASM Vol. 9
189	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of Decarburization	IS 6396
190	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimation of Average Grain Size by comparison Method	IS 4748

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191	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Non Metallic Inclusion Rating	IS 4163 (Method A)
192	MECHANICAL- METALLOGRAPHY TEST	Grey Cast Iron, S.G Iron	Micro Structure for graphite in Cast Iron	IS 7754
193	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Insulating Sheet, Wires, Blocks	Flammability	IS 11731 (P- 1)
194	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Insulating Sheets, Wires, Blocks	Flammability	IS 11731 (P-2)
195	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Polymers	Density	IS 13360 (P3,S10) Method A
196	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Polymers	Density	ISO 1183 (P1) Method A
197	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Polymers	Hardness	IS 13360 (Pt-5, Sec 11)
198	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Polymers	Melt Flow Index	ASTM D1238
199	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Polymers	Tensile Strength	ISO 527 (P-3)
200	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Polymers	Tensile Strength	IS 13360 (P-5 / S-1)
201	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Polymers	Water absorption	ASTM D570
202	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Similar Products	Compression Set	IS 3400 (P-10/S-1)
203	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Similar Products	Accelerated ageing test - Change in Tensile Strength	IS 3400 (P-4)
204	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Similar Products	Accelerated ageing test- Change in Elongation	IS 3400 (P-4)
205	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Similar Products	Accelerated ageing test- Change in Hardness (Shore-A)	IS 3400 (P-4)
206	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Similar Products	Elongation at break	IS 3400 (P-1)
207	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Similar Products	Elongation at break	ISO 37
208	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Similar Products	Hardness	IS 3400 (P-23/S-1)
209	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Similar Products	Tensile Strength	IS 3400 (P-1)

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210	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Similar Products	Tensile Strength	ISO 37