National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SUKHAKARTA GENERAL ENGINEERING CLUSTER PVT. LTD., D1 BLOCK, PLOT NO. 51, MIDC, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 19/09/2021 to 18/09/2023 **Last Amended on** -

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 & its alloys	Chromium	ASTM E 1251
2	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 1251
3	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E 1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Strontium	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	ASTM E 1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251
14	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	TP/7.2/05/CH/ 04 Issue No.01
15	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	TP/7.2/05/CH/04 Issue No.01
16	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	TP/7.2/05/CH 04/ Issue No.01
17	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	TP/7.2/05/CH 04/ Issue No.01
18	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	TP/7.2/05/CH 04/ Issue No.01

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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
19	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	TP/7.2/05/CH 04/ Issue No.01
20	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	TP/7.2/05/CH/ Issue No.01:
21	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	TP/7.2/05/CH 04/ Issue No.01
22	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	TP/7.2/05/CH 04/ Issue No.01
23	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	TP/7.2/05/CH 04/ Issue No.01
24	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Niobium	TP/7.2/05/CH/ Issue No.01
25	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	TP/7.2/05/CH 04/ Issue No.01
26	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	TP/7.2/05/CH/ Issue No.01
27	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silver	TP/7.2/05/CH 04/ Issue No.01
28	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur	TP/7.2/05/CH 04/ Issue No.01
29	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	TP/7.2/05/CH 04/ Issue No.01
30	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	TP/7.2/05/CH 04/ Issue No.01
31	CHEMICAL- METALS & ALLOYS	Die Steel	Carbon	JIS G 1253
32	CHEMICAL- METALS & ALLOYS	Die Steel	Chromium	JIS G 1253
33	CHEMICAL- METALS & ALLOYS	Die Steel	Cobalt	JIS G 1253
34	CHEMICAL- METALS & ALLOYS	Die Steel	Manganese	JIS G 1253
35	CHEMICAL- METALS & ALLOYS	Die Steel	Molybdenum	JIS G 1253
36	CHEMICAL- METALS & ALLOYS	Die Steel	Phosphorus	JIS G 1253
37	CHEMICAL- METALS & ALLOYS	Die Steel	Silicon	JIS G 1253

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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
38	CHEMICAL- METALS & ALLOYS	Die Steel	Sulphur	JIS G 1253
39	CHEMICAL- METALS & ALLOYS	Die Steel	Tungsten	JIS G 1253
40	CHEMICAL- METALS & ALLOYS	Die Steel	Vanadium	JIS G 1253
41	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	IS 8811
43	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	IS 8811
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 8811
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E415
48	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 8811
49	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	ASTM E415
50	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	IS 8811
51	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E415
52	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	IS 8811
53	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	ASTM E415
54	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	IS 8811
55	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E415
56	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E415

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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
57	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	IS 8811
58	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E415
59	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 8811
60	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	ASTM E415
61	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	IS 8811
62	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nitrogen	ASTM E415
63	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nitrogen	IS 8811
64	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E415
65	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 8811
66	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E415
67	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 8811
68	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	ASTM E415
69	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 8811
70	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin	ASTM E415
71	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin	IS 8811
72	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	ASTM E415
73	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	IS 8811
74	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tungsten	ASTM E415
75	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tungsten	IS 8811

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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
76	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	ASTM E415
77	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	IS 8811
78	CHEMICAL- METALS & ALLOYS	Low Alloy Steel.	Manganese	IS 8811
79	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	TP/7.2/05/CH/ Issue No.02
80	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	TP/7.2/05/CH/ Issue No.02
81	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	TP/7.2/05/CH/ Issue No.02
82	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	TP/7.2/05/CH/ Issue No.02
83	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	TP/7.2/05/CH/ Issue No.02
84	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	TP/7.2/05/CH/ Issue No.02
85	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	TP/7.2/05/CH/ Issue No.02
86	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	TTP/7.2/05/CH/ Issue No.02
87	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	TP/7.2/05/CH/ Issue No.02
88	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Nitrogen	TP/7.2/05/CH/ Issue No.02
89	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus	TP/7.2/05/CH/ Issue No.02
90	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	TP/7.2/05/CH/ Issue No.02
91	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulphur	TP/7.2/05/CH/ Issue No.02
92	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tantalum	TP/7.2/05/CH/ Issue No.02
93	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	TP/7.2/05/CH/ Issue No.02
94	CHEMICAL- METALS & ALLOYS	Stainless steel	Aluminium	ASTM E 1086

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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
95	CHEMICAL- METALS & ALLOYS	Stainless steel	Aluminium	IS 9879
96	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	ASTM E 1086
97	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879
98	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	ASTM E 1086
99	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 9879
100	CHEMICAL- METALS & ALLOYS	Stainless steel	Cobalt	ASTM E 1086
101	CHEMICAL- METALS & ALLOYS	Stainless steel	Cobalt	IS 9879
102	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	ASTM E 1086
103	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879
104	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E 1086
105	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 9879
106	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E 1086
107	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879
108	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E 1086
109	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879
110	CHEMICAL- METALS & ALLOYS	Stainless steel	Niobium	ASTM E 1086
111	CHEMICAL- METALS & ALLOYS	Stainless steel	Niobium	IS 9879
112	CHEMICAL- METALS & ALLOYS	Stainless steel	Nitrogen	ASTM E 1086
113	CHEMICAL- METALS & ALLOYS	Stainless steel	Nitrogen	IS 9879

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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
114	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	ASTM E 1086
115	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	IS 9879
116	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	ASTM E 1086
117	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 9879
118	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E 1086
119	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879
120	CHEMICAL- METALS & ALLOYS	Stainless steel	Titanium	ASTM E 1086
121	CHEMICAL- METALS & ALLOYS	Stainless steel	Titanium	IS 9879
122	CHEMICAL- METALS & ALLOYS	Stainless steel	Tungsten	ASTM E 1086
123	CHEMICAL- METALS & ALLOYS	Stainless steel	Tungsten	IS 9879
124	CHEMICAL- METALS & ALLOYS	Stainless steel	Vanadium	ASTM E 1086
125	CHEMICAL- METALS & ALLOYS	Stainless steel	Vanadium	IS 9879
126	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Aluminium	TP/7.2/05/CH/ Issue No.03
127	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Antimony	TP/7.2/05/CH/ Issue No.03
128	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Cadmium	TP/7.2/05/CH/ Issue No.03
129	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Chromium	TP/7.2/05/CH/ Issue No.03
130	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Copper	TP/7.2/05/CH/ Issue No.03
131	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Iron	TP/7.2/05/CH/ Issue No.03
132	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Lead	TP/7.2/05/CH/ Issue No.03

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133	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Magnesium	TP/7.2/05/CH/ Issue No.03
134	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Manganese	TP/7.2/05/CH/ Issue No.03
135	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Nickel	TP/7.2/05/CH/ Issue No.03
136	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Tin	TP/7.2/05/CH/ Issue No.03
137	CHEMICAL- METALS & ALLOYS	zinc plated Articles	Mass of zinc Coating	IS 6745
138	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Austenitic Stainless Steel	Boiling Nitric Acid test Practice C	ASTM A262
139	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Austenitic stainless Steel	Copper sulphate sulphuric acid test Practice E. (strauss Test)	ASTM A262
140	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Austenitic Stainless Steel	Copper sulphate Sulphuric acid test practice E.(Strauss Test)	EN ISO 3651-2
141	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Austenitic stainless Steel	Ferric Sulphate sulphuric acid test practice B	ASTM A262
142	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Austenitic Stainless Steel	Oxalic Acid etch test Practice A	ASTM A262
143	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Produc	0.2% Proof Stress	ASTM E8/E8M
144	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	% Reduction in area	ISO 6892-1
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	% Elongation	ASTM A370
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	% Elongation	ASTM E8/E8M
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	% Elongation	ISO 6892-1

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148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	% Reduction in area	ASTM A370
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	% Reduction in area	ASTM E8/E8M
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	0.2% Proof Stress	ASTM A370
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	0.2% Proof Stress	ISO 6892-1
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	0.5% Proof Stress	ASTM A370
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	0.5% Proof Stress	ASTM E8/E8M
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	0.5% Proof Stress	ISO 6892-1
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Bend Test: Transverse Face, Root, Side Bend test	ASME Sec IX
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Bend Test: Transverse Face, Root, Side Bend test	ASTM E190
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Bend Test: Transverse Face, Root, Side Bend test	IS 2825
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Bend Test: Transverse Face, Root, Side Bend test	ASTM E190
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Bend Test: Transverse Face, Root, Side Bend test	BS EN ISO 15164-1
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Charpy Impact Test (V-Notch on Metallic Material)	ASTM E23
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Charpy Impact Test (V-Notch on Metallic Material)	EN ISO 148-1

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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
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Through Thickness Tension Testing	ASTM A770
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Through Thickness Tension Testing	BS En 10164
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Ultimate Tensile Strength	ISO 6892-1
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Ultimate Tensile Strength	ASTM A370
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Ultimate Tensile Strength	ASTM E8/E8M
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Ultimate Tensile Strength	IS 1608 (Part 1)
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Ultimate Tensile Strength	IS 1786
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Ultimate Tensile Strength (Transverse All Weld)	ASME Sec IX
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Ultimate Tensile Strength (Transverse, All Weld)	IS 2825
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Ultimate Tensile Strength (Transverse, All Weld)	ISO 15164-1
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Yield Strength	ASTM A370
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Yield Strength	ASTM E8/E8M
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Product	Yield Strength	IS 1602 part 1
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	% Elongation	IS 1608 (Part 1)

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176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	% Reduction in area	IS 1608 (Part 1)
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	0.2% Proof Stress	IS 1608 (Part 1)
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	0.5% Proof Stress	IS 1608 (Part 1)
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Bend Test	IS 1599
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Brinell Hardness (10mm/3000 kgf)	ASTM E10
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Brinell Hardness (10mm/3000Kgf)	ASTM E370
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Brinell Hardness (5mm / 750kgf)	ASTM A370
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Brinell Hardness (5mm/750Kgf)	IS 1500
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Briness Hardness (10mm/3000kgf)	IS 1500
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Briness Hardness (5mm/750kgf)	ASTM E10
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Flattening Test	ASTM A370
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Flattening Test	IS 2328
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness (HV 0.1)	ASTM A370
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness (HV 0.3)	ASTM E384

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190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness (HV 0.3)	IS 1501(Part 1)
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness (HV0.1)	IS 1501(Part 1)
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness (HV0.3)	ASTM A370
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness (HV0.5)	ASTM A370
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness (HV0.5)	ASTM E384
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness (HV0.5)	IS 1501 (Part 1)
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness (HV1)	ASTM A370
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness (HV1)	ASTM E384
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness (HV1)	IS 1501 (part 1)
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro Vickers Hardness(HV 0.1)	ASTM E384
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Hardness Test (HRA)	ASTM A370
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Hardness Test (HRA)	ASTM E18
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Hardness Test (HRA)	IS 1586(Part 1)
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Hardness Test (HRB)	ASTM A370

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204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Hardness Test (HRB)	ASTM E18
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Hardness Test (HRB)	IS 1586 (Part 1)
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Hardness Test (HRC)	ASTM A370
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Hardness Test (HRC)	ASTM E18
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Hardness Test (HRC)	IS 1586 (Part 1)
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (15N)	ASTM A370
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (15N)	ASTM E18
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (15N)	IS 1586 (Part 1)
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (15N)	IS 1586 (Part 1)
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (15T)	ASTM A370
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (15T)	ASTM E18
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (15T)	IS 1586 (Part 1)
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (15T)	IS 1586 (Part 1)
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (30N)	ASTM A370

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218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (30N)	ASTM E18
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (30N)	IS 1586 (part 1)
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (30N)	IS 1586 (Part 1)
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (30T)	ASTM A370
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (30T)	ASTM E18
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (30T)	IS 1586 (Part 1)
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Rockwell Superficial Hardness (30T)	IS 1586(Part 1)
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Vickers Hardness (HV10)	ASTM A370
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Vickers Hardness (HV10)	ASTM E384
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Vickers Hardness (HV10)	IS 1501 (Part 1)
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Vickers Hardness (HV30)	ASTM A370
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Vickers Hardness (HV30)	ASTM E384
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Vickers Hardness (HV30)	IS 1501 (Part 1)
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Vickers Hardness (HV5)	ASTM A370

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232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Vickers Hardness (HV5)	ASTM E384
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals, Alloy & Products	Vickers Hardness (HV5)	IS 1501 (Part 1)
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Sheets and Strips	Cupping Test	IS 10175
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloy and product	Bend Test	ASTM E190
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Rich chromium bearing alloy	ferric sulphate sulphuric acid test Method A	ASTM G28
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Rich Chromium bearing alloy	Mixed acid Oxidating salt test method B	ASTM G28
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut for high pressure and high Temperature Service/steel bolt and screw /steel bolt and screw(M8 to M24 coarse thread)/steel nut(M8 to M24 Coarse Thread)	Test on Fasteners	ASTM A194
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut for high pressure and high Temperature Service/steel bolt and screw /steel bolt and screw(M8 to M24 coarse thread)/steel nut(M8 to M24 Coarse Thread)	Test On fasteners	IS 1367-3
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut for high pressure and high Temperature Service/steel bolt and screw /steel bolt and screw(M8 to M24 coarse thread)/steel nut(M8 to M24 Coarse Thread)	Test on Fasteners	IS 1367-6
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut for high pressure and high Temperature Service/steel bolt and screw /steel bolt and screw(M8 to M24 coarse thread)/steel nut(M8 to M24 Coarse Thread)	Test on fasteners	ISO 898-1
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut for high pressure and high Temperature Service/steel bolt and screw /steel bolt and screw(M8 to M24 coarse thread)/steel nut(M8 to M24 Coarse Thread)	Test on Fasteners	ISO 898-2
243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel Nickel & Nickel Alloy	Detection of Detrimental intermetallic phase in Duplex stainless Steel.	ASTM A923: Method A NaOH Etch Test.
244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel, Nickel & Nickel Alloy	Detection of Detrimental intermetallic phase in duplex stainless steel.	ASTM A923:2017 Method B-Charphy Impact Test (V-Notch)
245	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar	Bend / Rebend Test	IS 1786

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246	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	% Elongation	ASTM E290
247	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	%Elongation	IS 1599
248	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	%Elongation	IS 1786
249	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	0.2% Proof Stress	IS 1786
250	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	Bend / Rebend Test	ASTM E290
251	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	Bend / Rebend test	ASTM E290
252	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	Bend / Rebend Test	IS 1599
253	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	Bend / Rebend Test	IS 1786
254	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	Bend Rebend Test	ASTM E290
255	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	Proof Stress	ASTM E290
256	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	UTS	ASTM E290
257	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	UTS	IS 1599
258	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	UTS	IS 1786
259	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars	Yield strength	IS 1786

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260	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Ferrous Metals, Alloy & Products	% Nodularity, Nodular and Nodule Count	IS 7754
261	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Ferrous Metals, Alloy & Products	Flakes Type and Size Analysis	IS 7754
262	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Ferrous Metals, Alloy & Products	Micro-structure Analysis	ASM HANDBOOK VOL. 9
263	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Ferrous Metals, Alloy & Products	Non Metallic Inclusion Rating by comparison method (Microscopic)	IS 4163
264	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals, Alloy & Products	Coating thickness (By Microscopic Method).	IS 3203
265	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals, Alloy & Products	Micro-structure Analysis	ASM HANDBOOOK VOL.9
266	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals, Alloy & Products	Non metallic Inclusion Rating By Comparison method (Microscopic)	IS 4163
267	MECHANICAL-METALLOGRAPHY TEST	Ferrous material alloy & Product	Case depth (By Microscopic Method)	IS 6416
268	MECHANICAL-METALLOGRAPHY TEST	Ferrous material alloy & products	Average Grain Size (by Comparison Method) Grain size by Mc-Quaid EHN Method.	ASTM E 112
269	MECHANICAL-METALLOGRAPHY TEST	Ferrous material alloy & Products	Weld quality level of imperfection dimensional	ISO 5817
270	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloy & Products	Depth of Decarburization (By Microscopic Method)	IS 6396
271	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & products	Average Grain Size (by Comparison, Planimetric and Intercept Method)	ASTM E 112
272	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & products	Average Grain Size (by Comparison, Planimetric and Intercept Method)	IS 4748
273	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & products	Case Depth (by Micro-Hardness Method)	IS 6416
274	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & Products	Macro structural Examination	ASTM E381
275	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals, Alloy & Products	Non Metallic Inclusion rating By Comparison Method(Microscopic)	ASTM E45 (Method A & D)