National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BANSAL CALIBRATION SERVICES, 49/39, SITE-IV, INDUSTRIAL AREA, SAHIBABAD, GHAZIABAD, UTTAR PRADESH, 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	Hot Dip Galvanized Sheet, Wire, Rod, Tube	Uniformity Test	IS 2633
2	CHEMICAL- CORROSION TESTS	decorative coating on steel, Zn alloys and Al alloys	CAAS Test	ASTM B 368:09
3	CHEMICAL- CORROSION TESTS	decorative coating on steel, Zn alloys and Al alloys	CAAS Test	ASTM B368:09
4	CHEMICAL- CORROSION TESTS	electroplated and anodized aluminium	AASS Test	IS 6910
5	CHEMICAL- CORROSION TESTS	electroplated and anodized aluminium coating	CASS Test	IS 5528
6	CHEMICAL- CORROSION TESTS	Hot Dip Galvanized Sheet, Wire, Rod, Tube	Adhesion Test (Hammer Test)	IS 2629
7	CHEMICAL- CORROSION TESTS	Hot Dip Galvanized Sheet, Wire, Rod, Tube	Adhesion Test (Hammer Test)	IS 2629 Amd.-3
8	CHEMICAL- CORROSION TESTS	Hot Dip Galvanized Sheet, Wire, Rod, Tube	Zinc Mass Coating	IS 6745 Amd-5
9	CHEMICAL- CORROSION TESTS	Painted & Coated metals	Salt Spray Test	ASTM B 117
10	CHEMICAL- CORROSION TESTS	Painted & Coated Product	Salt Spray Test	IS 9844
11	CHEMICAL- CORROSION TESTS	Painted & Coated Product	Salt Spray Test	ISO 9227
12	CHEMICAL- CORROSION TESTS	Painted & Coated Product	Salt Spray Test	JIS Z 2371
13	CHEMICAL- CORROSION TESTS	Painted & Surface Coated Product	Adhesion Test (Cross Hatch Test)	ISO 2409
14	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	ASTM E415
15	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	IS 8811-98
16	CHEMICAL- METALS & ALLOYS	Alloy Steel	Arsenic	ASTM E 415
17	CHEMICAL- METALS & ALLOYS	Alloy steel	Arsenic	IS 8811-98
18	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	ASTM E 415

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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	Alloy Steel	Boron	IS 8811-98
20	CHEMICAL- METALS & ALLOYS	Alloy steel	carbon	ASTM E 415
21	CHEMICAL- METALS & ALLOYS	Alloy steel	Carbon	IS 228(Part 1)
22	CHEMICAL- METALS & ALLOYS	Alloy steel	Carbon	IS 8811-98
23	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	IS 228(Part 6)
25	CHEMICAL- METALS & ALLOYS	Alloy steel	Chromiun	IS 8811-98
26	CHEMICAL- METALS & ALLOYS	Alloy Steel	Cobalt	ASTM E 415
27	CHEMICAL- METALS & ALLOYS	Alloy steel	Cobalt	IS 8811-98
28	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	ASTM E 415
29	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	IS 8811-98
30	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	ASTM E 415
31	CHEMICAL- METALS & ALLOYS	Alloy steel	Manganese	IS 228(Part 2)
32	CHEMICAL- METALS & ALLOYS	Alloy steel	Manganese	IS 8811-98
33	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	ASTM E 415
34	CHEMICAL- METALS & ALLOYS	Alloy steel	Molybdenum	IS 228 (Part 7))
35	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	IS 228(Part 10)
36	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	IS 8811-98
37	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	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
38	CHEMICAL- METALS & ALLOYS	Alloy steel	Nickel	IS 228(Part 5)
39	CHEMICAL- METALS & ALLOYS	Alloy steel	Nickel	IS 8811-98
40	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	ASTM E 415
41	CHEMICAL- METALS & ALLOYS	Alloy steel	Niobium	IS 8811-98
42	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nitrogen	ASTM E 415
43	CHEMICAL- METALS & ALLOYS	Alloy steel	Nitrogen	IS 8811-98
44	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorous	ASTM E 415
45	CHEMICAL- METALS & ALLOYS	Alloy steel	Phosphorous	IS 228(Part 3)
46	CHEMICAL- METALS & ALLOYS	Alloy steel	Phosphorous	IS 8811-98
47	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	Astm E 415
48	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon	IS 228(Part 8)
49	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon	IS 228(Part-11)
50	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon	IS 8811-98
51	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	ASTM E415
52	CHEMICAL- METALS & ALLOYS	Alloy steel	Sulphur	IS 228(Part 9)
53	CHEMICAL- METALS & ALLOYS	Alloy steel	Sulphur	IS 8811-98
54	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tin	ASTM E 415
55	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	ASTM E 415
56	CHEMICAL- METALS & ALLOYS	Alloy steel	Titanium	IS 8811-98

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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	Alloy Steel	Vanadium	ASTM E 415
58	CHEMICAL- METALS & ALLOYS	Alloy steel	Vanadium	IS 8811-98
59	CHEMICAL- METALS & ALLOYS	Alloy Steel	Zirconium	ASTM E 415
60	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Cadmium	ASTM E 1251
61	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Cobalt	ASTM E 1251
62	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E1251
63	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E 1251
64	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E 1251
65	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E 1251
66	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM E 1251
67	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	ASTM E 1251
68	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	ASTM E 1251
69	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM E 1251
70	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E 1251
71	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	ASTM E 1251
72	CHEMICAL- METALS & ALLOYS	Cast iron	Carbon	ASTM E 1999
73	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 12308(Part 11)
74	CHEMICAL- METALS & ALLOYS	Cast Iron	Cerium	ASTM E 1999
75	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E 1999

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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	Cast Iron	Copper	ASTM E 1999
77	CHEMICAL- METALS & ALLOYS	Cast iron	Manganese	ASTM E 1999
78	CHEMICAL- METALS & ALLOYS	Cast Iron	Megnesium	ASTM E 1999
79	CHEMICAL- METALS & ALLOYS	Cast iron	Molybdenum	ASTM E 1999
80	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E 1999
81	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 1999
82	CHEMICAL- METALS & ALLOYS	Cast iron	Silicon	ASTM E 1999
83	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E 1999
84	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E 1999
85	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E 1999
86	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminium	SOP/OES-Cu/019 Issued No.1
87	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Antimony	SOP/OES-Cu/019 Issued No.1
88	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Bismuth	SOP/OES-Cu/019 Issued No.1
89	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Cadmium	SOP/OES-Cu/019 Issued No.1
90	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Chromium	SOP/OES-Cu/019 Issued No.1
91	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Cobalt	SOP/OES-Cu/019 Issued No.1
92	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	SOP/OES-Cu/019 Issued No.1
93	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	SOP/OES-Cu/019 Issued No.1
94	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Magnesium	SOP/OES-Cu/019 Issued No.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
95	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	SOP/OES-Cu/019 Issued No.1
96	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	SOP/OES-Cu/019 Issued No.1
97	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Niobium	SOP/OES-Cu/019 Issued No.1
98	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorus	SOP/OES-Cu/019 Issued No.1
99	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silicon	SOP/OES-Cu/019 Issued No.1
100	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silver	SOP/OES-Cu/019 Issued No.1
101	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	SOP/OES-Cu/019 Issued No.1
102	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	SOP/OES-Cu/019 Issued No.1
103	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	ASTM E 3047
104	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	ASTM E 3047
105	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	ASTM E 3047
106	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	ASTM E 3047
107	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	ASTM E 3047
108	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	ASTM E 3047
109	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	ASTM E 3047
110	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	ASTM E 3047
111	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	ASTM E 3047
112	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	ASTM E 3047
113	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
114	CHEMICAL- METALS & ALLOYS	Stainless steel	Aluminium	IS 9879-98
115	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	ASTM E 1086
116	CHEMICAL- METALS & ALLOYS	Stainless steel	Boron	IS 9879-98
117	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086
118	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 228(Part 1)
119	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879-98
120	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
121	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
122	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 228(Part 6)
123	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 9879-98
124	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 9879-98
125	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	ASTM E 1086
126	CHEMICAL- METALS & ALLOYS	stainless steel	Cobalt	IS 9879-98
127	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
128	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879-98
129	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E 1086
130	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 228(Part 2)
131	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 9879-98
132	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	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
133	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 228(Part 7)
134	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879-98
135	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086
136	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086
137	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 228(Part 5)
138	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879-98
139	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	ASTM E 1086
140	CHEMICAL- METALS & ALLOYS	Stainless steel	Nitrogen	IS 9879
141	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous	IS 228(Part 3)
142	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086
143	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	IS 9879
144	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086
145	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 228(Part 8)
146	CHEMICAL- METALS & ALLOYS	stainless steel	Silicon	IS 9879
147	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E 1086
148	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 228:(Part 9)
149	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879
150	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	ASTM E 1086
151	CHEMICAL- METALS & ALLOYS	Stainless steel	Titanium	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
152	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	ASTM E 1086
153	CHEMICAL- METALS & ALLOYS	Tool Steel/High Speed Steel	Carbon	JIS G 1253
154	CHEMICAL- METALS & ALLOYS	Tool Steel/High Speed Steel	Chromium	JIS G 1253
155	CHEMICAL- METALS & ALLOYS	Tool Steel/High speed Steel	Copper	JIS G 1253
156	CHEMICAL- METALS & ALLOYS	Tool Steel/High speed Steel	Copper	JIS G1253
157	CHEMICAL- METALS & ALLOYS	Tool steel/High Speed steel	Manganese	JIS G 1253
158	CHEMICAL- METALS & ALLOYS	Tool steel/High Speed Steel	Nickel	JIS G 1253
159	CHEMICAL- METALS & ALLOYS	Tool steel/High Speed Steel	Phosphorus	JIS G 1253
160	CHEMICAL- METALS & ALLOYS	Tool Steel/High Speed steel	Silicon	JIS G 1253
161	CHEMICAL- METALS & ALLOYS	Tool steel/High Speed steel	Sulphur	JIS G1253
162	CHEMICAL- METALS & ALLOYS	Tool Steel/High Speed Steel	Tungsten	JIS G 1253
163	CHEMICAL- METALS & ALLOYS	Tool Steel/High Speed Steel	Tungsten	JIS G1253
164	CHEMICAL- METALS & ALLOYS	Tool steel/High Speed steel	Vanadium	JIS G 1253
165	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Cadmium	ISO 3815-1
166	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Copper	ISO 3815-1
167	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Lead	ISO 3815-1
168	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Magnesium	ISO 3815-1
169	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Tin	ISO 3815-1

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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
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Mass per Meter	IS 1786 Amd.4
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness Test (HBW) (10mm/3000kgf)	ASTM A 370
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Elongation	ASTM A 370
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloy	Breaking Load Test	As Per Client Specification
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloy	Tensile Strength	IS 1608 (Part-1)
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	% Elongation	IS 1608 (Part-1)
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	% Reduction of Area	IS 1608 (Part-1)
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	0.2% Proof Stress	IS 1608 (Part-1)
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Bend Test	IS 1599
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Brinell Hardness Test (HBW) / (5mm/750kgf)	IS 1500 (Part-1)
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Brinell Hardness Test (HBW/(10mm/3000Kgf))	IS 1500 (Part-1)
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Flattening Test	IS 2328
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Micro Vicker Hardness Test (HV 0.1)	IS 1501 (Part-1)
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Micro Vicker Hardness Test (HV 0.3)	IS 1501 (Part-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
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Micro Vicker Hardness Test (HV 0.5)	IS 1501 (Part-1)
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Micro Vicker Hardness Test (HV 1)	IS 1501 (Part-1)
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Rockwell Hardness Test (HRBW/100kgf)	IS 1586 (Part-1)
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Vicker Hardness Test (HV 10)	IS 1501 (Part-1)
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Vicker Hardness Test (HV 5)	IS 1501 (Part-1)
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium & Aluminium Alloys	Yield Stress	IS 1608 (Part-1)
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	% Elongation	IS 1608 (Part-1)
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	% Reduction Area	IS 1608 (Part-1)
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	0.2% Proof Stress	IS 1608 (Part-1)
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Bend Test	IS 1599
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Breaking Load Test	As per Client Specification
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Brinell Hardness Test HBW (10mm / 3000 kgf)	IS 1500 (Part-1)
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Brinell Hardness Test HBW (5mm/750 kgf)	IS 1500 (Part-1)
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Micro Vicker Hardness Test (HV 0.1)	IS 1501 (Part-1)

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198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Micro Vicker Hardness Test (HV 0.3)	IS 1501 (Part-1)
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Micro Vicker Hardness Test (HV 0.5)	IS 1501 (Part-1)
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Micro Vicker Hardness Test (HV 1)	IS 1501 (Part-1)
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Rockwell Hardness Test (HRBW)	IS 1586 (Part-1)
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Tensile Strength	IS 1608 (Part-1)
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Vicker Hardness Test (HV 10)	IS 1501 (Part-1)
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Vicker Hardness Test (HV 5)	IS 1501 (Part-1)
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloys	Yield Stress	IS 1608 (Part-1)
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	copper and copper alloys	Flattening Test	IS 2328
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material & Alloys,Tubular Products	Flattening Test	IS 2328
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & product	0.2% Proof Stress	IS 1608 (Part-1)
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	IS 1599
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW / (10 mm / 3000 kgf)	IS 1500 (Part-1)
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW)/(5mm/750kgf)	IS 1500 (Part-1)

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212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation	IS 1608 (Part-1)
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	U notch Charpy Impact Test	IS:1499 Amd.-1
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	% Reduction Area	IS 1608 (Part-1)
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Bend Test	IS 2329
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Breaking Load Test	As per Client Specification
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Hot tensile strength test from Room temp. Elevated temp. Upto 900°C (% Elongation)	ASTM E 21
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Micro Vicker Hardness Test (HV 0.1)	ASTM E 384
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Micro Vicker Hardness Test (HV 0.1)	IS 1501 (Part-1)
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Micro Vicker Hardness Test (HV 0.3)	ASTM E 384
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Micro Vicker Hardness Test (HV 0.3)	IS 1501 (Part-1)
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Micro Vicker Hardness Test (HV 0.5)	ASTM E 384
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Micro Vicker Hardness Test (HV 0.5)	IS 1501 (Part-1)
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Micro Vicker Hardness Test (HV 1)	ASTM E 384
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Micro Vicker Hardness Test (HV 1)	IS 1501 (Part-1)

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226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Proof Load Test (Fasteners)	IS 1367(Part-3 & Part-6)
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Proof Load Test (Fasteners)	ISO 898-1
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Rockwell Hardness Test (HRBW /100kgf)	IS 1586 (Part-1)
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Rockwell Hardness Test (HRC) (150kgf)	IS 1586 (Part-1)
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Tensile Strength	IS 1608 (Part-1)
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	V notch Izod Test	IS 1598
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Vicker Hardness Test (HV 10)	IS 1501 (Part-1)
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Vicker Hardness Test (HV 5)	ASTM E 384
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Vicker Hardness Test (HV 5)	IS 1501 (Part-1)
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Yield Stress	IS 1608 (Part-1)
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	% Elongation	IS 1786 Amd. 4
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	% Reduction Area	IS 1786 Amd.4
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	0.2% Proof Stess	IS 1786 Amd.4
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Tensile Strength	IS 1786 Amd. 4

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240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Yield Stres	IS 1786 Amd.4
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & Alloys & HSD Steel Bar, Plate, Pipe, Welded, Fasteners, Forging & Casting Product	V notch Charpy Impact Test (Up to -196°C)	IS 1757 (Part-1)
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	% Reduction Area	ASTM E-8/E8M
243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	0.2% Proof Stress	ASTM E-8/E8M
244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Brinell Hardness Test (HBW/(5mm/750kgf)	ASTM E 10
245	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Hot tensile strength test from Room temp. to Elevated temp. Upto 900°C (% Reduction Area)	ASTM E 21
246	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Rockwell Hardness Test (HRB/100 kgf)	ASTM E 18
247	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Tensile Strength	ASTM E-8/E8M
248	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Tensile Test	ISO 6892-1
249	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	V notch Charpy Impact Test	ISO 148-1
250	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	V notch Charpy Impact Test (Up to -196°C)	ASTM E-23
251	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Vicker Hardness Test (HV 10)	ASTM E 384
252	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Yield Stress	ASTM E-8/E8M
253	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Yield stress	ISO 6892-1

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254	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ISO 6892-1
255	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction Area	ISO 6892-1
256	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2 % Proof stress from Room temp. to Elevated temp. Upto 900°C	ISO 6892 (Part-2)
257	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Proof Stress	ISO 6892-1
258	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test (HBW) (10mm/3000kgf)	ASTM E10
259	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elongation	ASTM E8/E8M
260	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hot tensile strength test from Room temp. Elevated temp. Upto 900°C (% Elongation)	ISO 6892 (Part-2)
261	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hot tensile strength test from Room temp. to Elevated temp. Upto 900°C	ISO 6892 (Part-2)
262	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hot tensile strength test from Room temp. to Elevated temp. Upto 900°C	ASTM E 21
263	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hot tensile strength test from Room temp. to Elevated temp. Upto 900°C (% Reduction Area)	ISO 6892 (Part-2)
264	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hot tensile strength test from Room temp. to Elevated temp. Upto 900°C (0.2 % Proof stress)	ASTM E 21
265	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hot tensile strength test from Room temp. to Elevated temp. Upto 900°C yield Stength	ASTM E 21
266	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hot tensile strength test from Room temp. to Elevated temp. Upto 900°C yield Stength	ISO 6892 (Part-2)

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267	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (HRC/150kgf)	ASTM E 18
268	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	U notch Charpy Impact Test	ASTM E 23
269	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	U notch Charpy Impact Test	ISO 148-1
270	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	V Notch Izod Test	ASTM E 23
271	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Product	Tensile Strength	ASTM A-370
272	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Product	V notch Charpy Impact Test (Up to -196°C)	ASTM A 370
273	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Product	Yield Stress	ASTM A-370
274	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	% Reduction Area	ASTM A370
275	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	0.2% Proof Stress	ASTM A 370
276	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness Test (HBW/ 5mm/750kgf)	ASTM A 370
277	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Lateral Expansion	ASTM A 370
278	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Shear Fracture %	ASTM A 370
279	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	U notch Charpy Impact Test	ASTM A 370
280	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	V notch Izod Test	ASTM A 370

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281	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Face Bend / Root Bend / Side Bend	API 1104
282	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Face Bend / Root Bend / Side Bend	AWS B4.0
283	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Face Bend / Root Bend / Side Bend	BS EN ISO 5173
284	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Face Bend / Root Bend / Side Bend	IS 7307 (Part-1)
285	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, pipe & Rod	Fracture Test	ASME Sec.-IX
286	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Fracture Test	BS EN ISO 9017
287	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Fracture Test	IS 7307 (Part-1)
288	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Nick Break	API 1104
289	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Nick Break	IS 2825
290	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Transverse Tensile Test	API 1104
291	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Transverse Tensile Test	IS 7307 (Part-1)
292	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate,Pipe & Rod	0.2% Proof Stress	ASME Sec.-IX
293	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate,Pipe & Rod	Breaking Load Test	ASME Sec.-IX
294	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate,Pipe & Rod	Tensile Strength	ASME Sec.-IX

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295	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate,Pipe & Rod	V Notch Charpy Test	ASME Sex.-IX
296	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate,Pipe & Rod	Welded Guided Face, Root & Side Bend	ASME Sec.-IX
297	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate,Pipe & Rod	Yield Stress	ASME Sec.-IX
298	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & Product	IGC (Intergranual Corrosion test) Practice-C	ASTM A 262
299	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & Product	IGC (Intergranual Corrosion test) Practice-C	ASTM A 262
300	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & products	Charpy Impact Test (Method B)	ASTM A 923
301	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & products	Grain Size No.	ASTM E 112
302	MECHANICAL-METALLOGRAPHY TEST	Ferrous material,alloys & products	Pitting Corrosion Test (Method - C)	ASTM A 923
303	MECHANICAL-METALLOGRAPHY TEST	Ferrous material,alloys & products	Pitting Corrosion Test (Method - C)	ASTM A 923
304	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Ferrite %	ASTM E 562
305	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Ferrite % / FN	ASTM A800/A800M
306	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Hydrogen Induced Cracking Test	NACE TM 0284
307	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, alloys & products	IGC (Intergranual Corrosion test) Practice-B	ASTM A 262
308	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, alloys & products	IGC (Intergranual Corrosion test) Practice-B	ASTM A 262
309	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Case Depth (By Microscopic & Hardness measurement)	IS 6416
310	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Decarburization Depth by Microscopic Method (Steel Products)	IS 6396
311	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Detecting Detrimental Inter-metallic Phase in Duplex Austenitic/Ferritic Stainless Steels -Method A	ASTM A 923

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312	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Ferrite Grain size (Carbon Steel Products) Comparison Method	IS 4748
313	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	IGC (Intergranual Corrosion test) Practice-E	ASTM A 262
314	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	IGC (Intergranular Corrosion test) Practice-A	ASTM A 262
315	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Inclusion Rating (Steel Products)	ASTM E 45
316	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Inclusion Rating (Steel Products)	IS 4163
317	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Macro etch Test (Steel Product)	ASM Vol.-9
318	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Macro etch Test (Steel Product)	ASTM E 381
319	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Macro etch Test (Steel Product)	IS 13015
320	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Micro structure	ASM Handbook Vol-9
321	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Micro structure Test	IS 7754
322	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Pitting Corrosion Test (Method A)	ASTM G 48
323	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Pitting Corrosion Test (Method A)	ASTM G-28-2
324	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Plating Thickness on ferrous & Nonferrous metal	ASTM B 487
325	MECHANICAL-METALLOGRAPHY TEST	Welded Plate, Pipe & Rod	Macro Examination	API 1104
326	MECHANICAL-METALLOGRAPHY TEST	Welded Plate, Pipe & Rod	Macro Examination	ASME Sec.-IX
327	MECHANICAL-METALLOGRAPHY TEST	Welded Plate, Pipe & Rod	Macro Examination	AWS D 1.1
328	MECHANICAL-METALLOGRAPHY TEST	Welded Plate, Pipe & Rod	Macro Examination	BS EN ISO 17639
329	MECHANICAL-METALLOGRAPHY TEST	Welded Plate, Pipe & Rod	Macro Examination	IS 2825
330	MECHANICAL-METALLOGRAPHY TEST	Welded Plate, Pipe & Rod	Macro Examination	IS 7307 part-1