National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GEOLOGICAL AND METALLURGICAL LABORATORIES (A DIVISION OF IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.), 105X, 3RD MAIN, 3RD CROSS, II STAGE, YESHWANTHPUR INDUSTRIAL SUBURB, GOREGUNTEPALYA, BENGALURU, KARNATAKA, INDIA

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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- BUILDING MATERIAL	Admixture	Ash Content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride Content	IS 9103
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Cement PSC	Insoluble Residue	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement PSC	Chloride	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement PSC	Loss on Ignition	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement PSC	Magnesia (MgO)	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement PSC	Sulphuric Anhydride (SO3)	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement OPC 33 Grade, OPC 43 Grade, OPC 53 Grade, SRC	Insoluble Residue	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement OPC 33 Grade, OPC 43 Grade, OPC 53 Grade, SRC	Combined Oxides - Fe2O3	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement OPC 33 Grade, OPC 43 Grade, OPC 53 Grade, SRC	Combined Oxides Al2O3	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement OPC 33 Grade, OPC 43 Grade, OPC 53 Grade, SRC	Silica Content (As Si02)	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Cement OPC 33 Grade, OPC 43 Grade, OPC 53 Grade, SRC	CaO Content	IS 4032
16	CHEMICAL- BUILDING MATERIAL	Cement OPC 33 Grade, OPC 43 Grade, OPC 53 Grade, SRC	Chloride	IS 4032
17	CHEMICAL- BUILDING MATERIAL	Cement OPC 33 Grade, OPC 43 Grade, OPC 53 Grade, SRC	Loss on Ignition	IS 4032
18	CHEMICAL- BUILDING MATERIAL	Cement OPC 33 Grade, OPC 43 Grade, OPC 53 Grade, SRC	Magnesia (MgO)	IS 4032

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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- BUILDING MATERIAL	Cement OPC 33 Grade, OPC 43 Grade, OPC 53 Grade, SRC	Sulphuric Anhydride (SO3)	IS 4032
20	CHEMICAL- BUILDING MATERIAL	Filtration Media (Sand & gravel)	Loss on Ignition	IS 8419 (Part 1)
21	CHEMICAL- BUILDING MATERIAL	Filtration Media (Sand & gravel)	Acid Solubility	IS 8419 (Part 1)
22	CHEMICAL- BUILDING MATERIAL	Fly Ash	Alumina (Al2O3)	IS 1727
23	CHEMICAL- BUILDING MATERIAL	Fly ash	CaO Content	IS 1727
24	CHEMICAL- BUILDING MATERIAL	Fly ash	Chloride	IS 4032
25	CHEMICAL- BUILDING MATERIAL	Fly ash	Iron Oxide (Fe2O3)	IS 1727
26	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss on Ignition	IS 1727
27	CHEMICAL- BUILDING MATERIAL	Fly ash	Magnesia (MgO)	IS 1727
28	CHEMICAL- BUILDING MATERIAL	Fly ash	Silica Content (Si02)	IS 1727
29	CHEMICAL- BUILDING MATERIAL	Fly ash	Sulphuric Anhydride (S03)	IS 1727
30	CHEMICAL- BUILDING MATERIAL	Granulated Slag for the Manufacture of Portland Slag Cement	Alumina (Al2O3)	IS 4032
31	CHEMICAL- BUILDING MATERIAL	Granulated Slag for the Manufacture of Portland Slag Cement	Chloride	IS 4032
32	CHEMICAL- BUILDING MATERIAL	Granulated Slag for the Manufacture of Portland Slag Cement	Insoluble residue	IS 4032
33	CHEMICAL- BUILDING MATERIAL	Granulated Slag for the Manufacture of Portland Slag Cement	Iron oxide (Fe2O3)	IS 4032
34	CHEMICAL- BUILDING MATERIAL	Granulated Slag for the Manufacture of Portland Slag Cement	Lime (CaO)	IS 4032
35	CHEMICAL- BUILDING MATERIAL	Granulated Slag for the Manufacture of Portland Slag Cement	Loss on ignition	IS 4032
36	CHEMICAL- BUILDING MATERIAL	Granulated Slag for the Manufacture of Portland Slag Cement	Magnesia (MgO)	IS 4032
37	CHEMICAL- BUILDING MATERIAL	Granulated Slag for the Manufacture of Portland Slag Cement	Manganic Oxide	IS 4032

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38	CHEMICAL- BUILDING MATERIAL	Granulated Slag for the Manufacture of Portland Slag Cement	Moisture content	IS 12089
39	CHEMICAL- BUILDING MATERIAL	Granulated Slag for the Manufacture of Portland Slag Cement	Silica Content (SiO2)	IS 4032
40	CHEMICAL- BUILDING MATERIAL	Granulated Slag for the Manufacture of Portland Slag Cement	Sulphuric Anhydride (SO3)	IS 4032
41	CHEMICAL- BUILDING MATERIAL	High Alumina Cement	Aluminium Oxide (Al2O3)	IS 4032
42	CHEMICAL- BUILDING MATERIAL	High Alumina Cement	Iron Oxide (Fe2O3)	IS 4032
43	CHEMICAL- BUILDING MATERIAL	PPC	Chloride	IS 4032
44	CHEMICAL- BUILDING MATERIAL	PPC	Insoluble Residue	IS 4032
45	CHEMICAL- BUILDING MATERIAL	PPC	Loss on ignition	IS 4032
46	CHEMICAL- BUILDING MATERIAL	PPC	Magnesia (MgO)	IS 4032
47	CHEMICAL- BUILDING MATERIAL	PPC	Sulphuric Anhydride (SO3)	IS 4032
48	CHEMICAL- CORROSION TESTS	1. Metals and its Alloys, Coated/ Plated materials 2. Anodized Products 3. Painted and powder coated Articles 4. Galvanized items 5. Electrical & Electronic items & other organic or inorganic coating	Neutral Salt Spray Test	ASTM B117
49	CHEMICAL- CORROSION TESTS	1. Metals and its Alloys, Coated/ Plated materials 2. Anodized Products 3. Painted and Powder coated Articles 4. Galvanized items 5. Electrical & Electronic items & other organic or inorganic coating	Neutral Salt Spray Test	IS 9000 (Part XI), Procedure 1
50	CHEMICAL- CORROSION TESTS	1. Metals and its Alloys, Coated/ Plated materials 2. Anodized Products 3. Painted and Powder coated Articles 4. Galvanized items 5. Electrical & Electronic items & other organic or inorganic coating	Neutral Salt Spray Test	IS 9844
51	CHEMICAL- CORROSION TESTS	1. Metals and its Alloys, Coated/ Plated materials 2. Anodized Products 3. Painted and Powder coated Articles 4. Galvanized items 5. Electrical & Electronic items & other organic or inorganic coating	Neutral Salt Spray Test	ISO 9227
52	CHEMICAL- CORROSION TESTS	1.Copper / Nickel/Chromium Coatings on Ferrous base, Non Ferrous base and Plastics. 2.Anodic coatings on aluminium	Copper-Accelerated Acetic acid Salt Spray Test(CASS Test)	ASTM B368
53	CHEMICAL- CORROSION TESTS	1.Copper / Nickel/Chromium Coatings on Ferrous base, Non Ferrous base and Plastics. 2.Anodic coatings on aluminium	Copper-Accelerated Acetic acid Salt Spray Test(CASS Test)	ISO 9227

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54	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Anodized articles	Anodic coating thickness	IS 5523 (Cl 2.3)
55	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanized articles	Mass of Zinc coating	IS 6745 (Cl. 5)
56	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanized articles	Uniformity of coating on Zinc coated articles	IS 2633
57	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Phosphated articles	Mass of phosphate coating	IS 3618 (Cl 6.3)
58	CHEMICAL- METALS & ALLOYS	Aluminium alloys	B	STP-ICP-OES-04
59	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	B	STP-ICP-OES-04
60	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Be	STP-ICP-OES-04
61	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Bi	STP-ICP-OES-04
62	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Cr	IS 504 (Part 8)
63	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Cr	STP-ICP-OES-04
64	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Cu	IS 504 (Part 3)
65	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Cu	STP-ICP-OES-04
66	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Fe	IS 504 (Part 2)
67	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Fe	STP-ICP-OES-04
68	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Ga	STP-ICP-OES-04
69	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Mg	IS 504 (Part 6)
70	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Mg	STP-ICP-OES-04

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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
71	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Mn	IS 504 (Part 5)
72	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Mn	STP-ICP-OES-04
73	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Ni	IS 504 (Part 7)
74	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Ni	STP-ICP-OES-04
75	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Pb	IS 504 (Part 1)
76	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Pb	STP-ICP-OES-04
77	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Si	IS 504 (Part 1)
78	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Si	STP-ICP-OES-04
79	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Sn	IS 504 (Part 9)
80	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Sn	STP-ICP-OES-04
81	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Ti	IS 504 (Part 11)
82	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Ti	STP-ICP-OES-04
83	CHEMICAL- METALS & ALLOYS	Aluminium alloys	Zn	IS 504 (Part 4)
84	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Zn	STP-ICP-OES-04
85	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Zr	STP-ICP-OES-04
86	CHEMICAL- METALS & ALLOYS	Aluminium base	Bi	ASTM E 1251
87	CHEMICAL- METALS & ALLOYS	Aluminium base	Bi	IS 11035
88	CHEMICAL- METALS & ALLOYS	Aluminium Base	Cr	ASTM E 1251
89	CHEMICAL- METALS & ALLOYS	Aluminium Base	Cr	IS 11035

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90	CHEMICAL- METALS & ALLOYS	Aluminium Base	Cu	ASTM E 1251
91	CHEMICAL- METALS & ALLOYS	Aluminium Base	Cu	IS 11035
92	CHEMICAL- METALS & ALLOYS	Aluminium Base	Cu	IS 7658
93	CHEMICAL- METALS & ALLOYS	Aluminium Base	Fe	ASTM E 1251
94	CHEMICAL- METALS & ALLOYS	Aluminium Base	Fe	IS 11035
95	CHEMICAL- METALS & ALLOYS	Aluminium Base	Fe	IS 7658
96	CHEMICAL- METALS & ALLOYS	Aluminium Base	Mg	ASTM E 1251
97	CHEMICAL- METALS & ALLOYS	Aluminium Base	Mg	IS 11035
98	CHEMICAL- METALS & ALLOYS	Aluminium Base	Mn	ASTM E 1251
99	CHEMICAL- METALS & ALLOYS	Aluminium Base	Mn	IS 11035
100	CHEMICAL- METALS & ALLOYS	Aluminium Base	Mn	IS 7658
101	CHEMICAL- METALS & ALLOYS	Aluminium Base	Ni	ASTM E 1251
102	CHEMICAL- METALS & ALLOYS	Aluminium Base	Pb	ASTM E 1251
103	CHEMICAL- METALS & ALLOYS	Aluminium Base	Pb	IS 11035
104	CHEMICAL- METALS & ALLOYS	Aluminium Base	Si	ASTM E 1251
105	CHEMICAL- METALS & ALLOYS	Aluminium Base	Si	IS 11035
106	CHEMICAL- METALS & ALLOYS	Aluminium Base	Si	IS 7658
107	CHEMICAL- METALS & ALLOYS	Aluminium Base	Sn	ASTM E 1251
108	CHEMICAL- METALS & ALLOYS	Aluminium Base	Ti	ASTM E 1251

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109	CHEMICAL- METALS & ALLOYS	Aluminium Base	Ti	IS 11035
110	CHEMICAL- METALS & ALLOYS	Aluminium Base	V	ASTM E 1251
111	CHEMICAL- METALS & ALLOYS	Aluminium Base	Zn	ASTM E 1251
112	CHEMICAL- METALS & ALLOYS	Aluminium Base	Zn	IS 7658
113	CHEMICAL- METALS & ALLOYS	Aluminium base	Zr	ASTM E 1251
114	CHEMICAL- METALS & ALLOYS	Aluminium base	Zr	IS 11035
115	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Al	ASTM E 415
116	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Al	IS 8811
117	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	As	ASTM E 415
118	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	As	IS 8811
119	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	B	ASTM E 415
120	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	B	IS 8811
121	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	C	ASTM E 415
122	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	C	IS 8811
123	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	Co	ASTM E 415
124	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	Co	IS 8811
125	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Cr	ASTM E 415
126	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Cr	IS 8811
127	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Cu	ASTM E 415

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128	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Cu	IS 8811
129	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Mn	ASTM E 415
130	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Mn	IS 8811
131	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Mo	ASTM E 415
132	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Mo	IS 8811
133	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Nb	ASTM E 415
134	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Nb	IS 8811
135	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Ni	ASTM E 415
136	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Ni	IS 8811
137	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	P	ASTM E 415
138	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	P	IS 8811
139	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Pb	ASTM E 415
140	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Pb	IS 8811
141	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	S	ASTM E 415
142	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	S	IS 8811
143	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	Sb	ASTM E 415
144	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	Sb	IS 8811
145	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Si	ASTM E 415
146	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Si	IS 8811

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147	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	Sn	ASTM E 415
148	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	Sn	IS 8811
149	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	Ta	ASTM E 415
150	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	Ta	IS 8811
151	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Ti	ASTM E 415
152	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	Ti	IS 8811
153	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	V	ASTM E 415
154	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steels	V	IS 8811
155	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	W	ASTM E 415
156	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	W	IS 8811
157	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	Zr	ASTM E 415
158	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steels	Zr	IS 8811
159	CHEMICAL- METALS & ALLOYS	Carbon Steels, Alloy Steels, Stainless Steels, Tool Steels, Cast Iron	Al	STP-ICP-OES-01
160	CHEMICAL- METALS & ALLOYS	Carbon Steels, Alloy Steels, Stainless Steels, Tool Steels, Cast Iron	B	STP-ICP-OES-01
161	CHEMICAL- METALS & ALLOYS	Carbon Steels, Alloy Steels, Stainless Steels, Tool Steels, Cast Iron	Ca	STP-ICP-OES-01
162	CHEMICAL- METALS & ALLOYS	Carbon Steels, Alloy Steels, Stainless Steels, Tool Steels, Cast Iron	H	STP CH 09, Issue no.1, Issue date 28.01.2015 (
163	CHEMICAL- METALS & ALLOYS	Carbon Steels, Alloy Steels, Stainless Steels, Tool Steels, Cast Iron	Mg	STP-ICP-OES-01
164	CHEMICAL- METALS & ALLOYS	Carbon Steels, Alloy Steels, Stainless Steels, Tool Steels, Cast Iron	N	ASTM 1019
165	CHEMICAL- METALS & ALLOYS	Carbon Steels, Alloy Steels, Stainless Steels, Tool Steels, Cast Iron	Nb	STP-ICP-OES-01

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166	CHEMICAL- METALS & ALLOYS	Carbon Steels, Alloy Steels, Stainless Steels, Tool Steels, Cast Iron	O	ASTM 1019
167	CHEMICAL- METALS & ALLOYS	Carbon Steels, Alloy Steels, Stainless Steels, Tool Steels, Cast Iron	Sn	STP-ICP-OES-01
168	CHEMICAL- METALS & ALLOYS	Carbon Steels, Alloy Steels, Stainless Steels, Tool Steels, Cast Iron	Ta	STP-ICP-OES-01
169	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Co	ASTM 352
170	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Co	ASTM E 350
171	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Co	ASTM E 351
172	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Co	ASTM E 353
173	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Co	STP-ICP-OES-01
174	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Cr	STP-ICP-OES-01
175	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Cu	STP-ICP-OES-01
176	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Mn	STP-ICP-OES-01
177	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Mo	STP-ICP-OES-01
178	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Ni	STP-ICP-OES-01
179	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Pb	STP-ICP-OES-01
180	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Si	STP-ICP-OES-01
181	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Ti	ASTM E 350
182	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Ti	ASTM E 351
183	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	Ti	ASTM E 353
184	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels, stainless steels,tool steels cast iron	W	STP-ICP-OES-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
185	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	C	ASTM E 1019
186	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Cr	ASTM E 350
187	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Cr	ASTM E 351
188	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Cr	ASTM E 352
189	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Cr	ASTM E 353
190	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Cu	ASTM E 351
191	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Cu	ASTM E 352
192	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Cu	ASTM E 353
193	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Mn	IS 12308 (Part 10)
194	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Mn	IS 228 (Part 12)
195	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Mn	IS 228 (Part 2)
196	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Mo	IS 12308 (Part 9)
197	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Mo	IS 228 (Part 10)
198	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Mo	IS 228 (Part 7)
199	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Ni	ASTM E 351
200	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Ni	IS 228 (Part 5)
201	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	P	IS 12308 (Part 5)
202	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	P	IS 228 (Part 3)
203	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	S	ASTM E 1019

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204	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Si	ASTM E 353
205	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Si	IS 12308 (Part 6)
206	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Si	IS 228 (Part 8)
207	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	Ti	STP-ICP-OES-01
208	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	V	STP-ICP-OES-01
209	CHEMICAL- METALS & ALLOYS	Carbon steels, alloy steels,stainless steels,tool steels cast iron	W	IS 228 (Part 16)
210	CHEMICAL- METALS & ALLOYS	Copper Alloys	Al	STP CH 12 ISSUE 1
211	CHEMICAL- METALS & ALLOYS	Copper Alloys	Al	STP-ICP-OES-02
212	CHEMICAL- METALS & ALLOYS	Copper Alloys	Be	STP-ICP-OES-02
213	CHEMICAL- METALS & ALLOYS	Copper Alloys	Bi	STP-ICP-OES-02
214	CHEMICAL- METALS & ALLOYS	Copper Alloys	Co	STP-ICP-OES-02
215	CHEMICAL- METALS & ALLOYS	Copper Alloys	Cu	IS 3187
216	CHEMICAL- METALS & ALLOYS	Copper Alloys	Cu	IS 3685
217	CHEMICAL- METALS & ALLOYS	Copper Alloys	Cu	IS 4027 (Part 1)
218	CHEMICAL- METALS & ALLOYS	Copper Alloys	Fe	IS 3187
219	CHEMICAL- METALS & ALLOYS	Copper Alloys	Fe	IS 3685
220	CHEMICAL- METALS & ALLOYS	Copper Alloys	Fe	IS 4027 (Part 8)
221	CHEMICAL- METALS & ALLOYS	Copper Alloys	Fe	STP-ICP-OES-02
222	CHEMICAL- METALS & ALLOYS	Copper Alloys	Mg	STP-ICP-OES-02

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223	CHEMICAL- METALS & ALLOYS	Copper Alloys	Mn	IS 3187
224	CHEMICAL- METALS & ALLOYS	Copper Alloys	Mn	IS 3685
225	CHEMICAL- METALS & ALLOYS	Copper Alloys	Mn	IS 4027 (Part 2)
226	CHEMICAL- METALS & ALLOYS	Copper Alloys	Mn	STP-ICP-OES-02
227	CHEMICAL- METALS & ALLOYS	Copper Alloys	Ni	IS 3187
228	CHEMICAL- METALS & ALLOYS	Copper Alloys	Ni	IS 3685
229	CHEMICAL- METALS & ALLOYS	Copper Alloys	Ni	IS 4027 (Part 4)
230	CHEMICAL- METALS & ALLOYS	Copper alloys	Ni	STP-ICP-OES-02
231	CHEMICAL- METALS & ALLOYS	Copper alloys	O	ASTM E 2575
232	CHEMICAL- METALS & ALLOYS	Copper Alloys	P	IS 3685
233	CHEMICAL- METALS & ALLOYS	Copper Alloys	P	IS 4027 (Part 3)
234	CHEMICAL- METALS & ALLOYS	Copper Alloys	Pb	IS 3685
235	CHEMICAL- METALS & ALLOYS	Copper Alloys	Pb	IS 4027 (Part 1)
236	CHEMICAL- METALS & ALLOYS	Copper Alloys	Pb	STP-ICP-OES-02
237	CHEMICAL- METALS & ALLOYS	Copper Alloys	Sb	STP-ICP-OES-02
238	CHEMICAL- METALS & ALLOYS	Copper Alloys	Se	STP-ICP-OES-02
239	CHEMICAL- METALS & ALLOYS	Copper Alloys	Si	IS 3685
240	CHEMICAL- METALS & ALLOYS	Copper Alloys	Si	IS 4027 (Part 10)
241	CHEMICAL- METALS & ALLOYS	Copper Alloys	Si	STP-ICP-OES-02

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242	CHEMICAL- METALS & ALLOYS	Copper Alloys	Sn	IS 3685
243	CHEMICAL- METALS & ALLOYS	Copper Alloys	Sn	IS 4027(Part 5)
244	CHEMICAL- METALS & ALLOYS	Copper alloys	Sn	STP-ICP-OES-02
245	CHEMICAL- METALS & ALLOYS	Copper Alloys	Te	STP-ICP-OES-02
246	CHEMICAL- METALS & ALLOYS	Copper Alloys	Zn	IS 3187
247	CHEMICAL- METALS & ALLOYS	Copper Alloys	Zn	IS 3685
248	CHEMICAL- METALS & ALLOYS	Copper Alloys	Zn	IS 4027 (Part 6)
249	CHEMICAL- METALS & ALLOYS	Copper Alloys	Zn	STP-ICP-OES-02
250	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Ag	BS EN 15079
251	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Al	BS EN 15079
252	CHEMICAL- METALS & ALLOYS	Copper base Alloys	As	BS EN 15079
253	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Be	BS EN 15079
254	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Bi	BS EN 15079
255	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Co	BS EN 15079
256	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Cr	BS EN 15079
257	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Fe	BS EN 15079
258	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Mn	BS EN 15079
259	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Ni	BS EN 15079
260	CHEMICAL- METALS & ALLOYS	Copper base Alloys	P	BS EN 15079

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261	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Pb	BS EN 15079
262	CHEMICAL- METALS & ALLOYS	Copper base Alloys	S	BS EN 15079
263	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Sb	BS EN 15079
264	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Si	BS EN 15079
265	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Sn	BS EN 15079
266	CHEMICAL- METALS & ALLOYS	Copper base Alloys	Zn	BS EN 15079
267	CHEMICAL- METALS & ALLOYS	Ferro Chrome	C	ASTM E 1019
268	CHEMICAL- METALS & ALLOYS	Ferro Chrome	Cr	IS 1559
269	CHEMICAL- METALS & ALLOYS	Ferro Chrome	P	IS 1559
270	CHEMICAL- METALS & ALLOYS	Ferro Chrome	S	ASTM E 1019
271	CHEMICAL- METALS & ALLOYS	Ferro Chrome	Si	IS 1559
272	CHEMICAL- METALS & ALLOYS	Ferro Manganese	C	ASTM E 1019
273	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Mn	IS 1559
274	CHEMICAL- METALS & ALLOYS	Ferro Manganese	P	IS 1559
275	CHEMICAL- METALS & ALLOYS	Ferro Manganese	S	ASTM E 1019
276	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Si	IS 1559
277	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	C	ASTM E 1019
278	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	Mo	IS 12614 (Part 1)
279	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	S	ASTM E 1019

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280	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	Si	IS 1559
281	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Al	IS 1559
282	CHEMICAL- METALS & ALLOYS	Ferro Silicon	C	ASTM E 1019
283	CHEMICAL- METALS & ALLOYS	Ferro Silicon	P	IS 1559
284	CHEMICAL- METALS & ALLOYS	Ferro Silicon	S	ASTM E 1019
285	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Si	IS 1559
286	CHEMICAL- METALS & ALLOYS	Lead Alloys & Antimonial Lead	Ag	DD ENV 12908
287	CHEMICAL- METALS & ALLOYS	Lead Alloys & Antimonial Lead	As	DD ENV 12908
288	CHEMICAL- METALS & ALLOYS	Lead Alloys & Antimonial Lead	Bi	DD ENV 12908
289	CHEMICAL- METALS & ALLOYS	Lead Alloys & Antimonial Lead	Ca	DD ENV 12908
290	CHEMICAL- METALS & ALLOYS	Lead Alloys & Antimonial Lead	Cd	DD ENV 12908
291	CHEMICAL- METALS & ALLOYS	Lead alloys & Antimonial Lead	Cu	DD ENV 12908
292	CHEMICAL- METALS & ALLOYS	Lead Alloys & Antimonial lead	S	DD ENV 12908
293	CHEMICAL- METALS & ALLOYS	Lead Alloys and Antimonial lead	Pb	IS 403
294	CHEMICAL- METALS & ALLOYS	Lead Alloys and Antimonial lead	Sb	DD ENV 12908
295	CHEMICAL- METALS & ALLOYS	Lead Alloys and Antimonial lead	Se	DD ENV 12908
296	CHEMICAL- METALS & ALLOYS	Lead Alloys and Antimonial lead	Sn	DD ENV 12908
297	CHEMICAL- METALS & ALLOYS	Lead Alloys and Antimonial lead	Te	DD ENV 12908
298	CHEMICAL- METALS & ALLOYS	Lead Alloys and Antimonial lead	Zn	DD ENV 12908

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299	CHEMICAL- METALS & ALLOYS	Lead alloys Antimonial Lead and battery grade lead	As	DD ENV 12908
300	CHEMICAL- METALS & ALLOYS	Lead alloys Antimonial Lead and battery grade lead	Bi	DD ENV 12908
301	CHEMICAL- METALS & ALLOYS	Lead alloys Antimonial Lead and battery grade lead	Cd	DD ENV 12908
302	CHEMICAL- METALS & ALLOYS	Lead alloys Antimonial Lead and battery grade lead	Ni	DD ENV 12908
303	CHEMICAL- METALS & ALLOYS	Lead alloys Antimonial Lead and battery grade lead	Sb	DD ENV 12908
304	CHEMICAL- METALS & ALLOYS	Lead alloys Antimonial Lead and battery grade lead	Sn	DD ENV 12908
305	CHEMICAL- METALS & ALLOYS	Lead alloys Antimonial Lead and battery grade lead	Zn	DD ENV 12908
306	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Al	STP-ICP-OES-03
307	CHEMICAL- METALS & ALLOYS	Nickel Alloys	B	STP-ICP-OES-03
308	CHEMICAL- METALS & ALLOYS	Nickel alloys	C	ASTM E 1019
309	CHEMICAL- METALS & ALLOYS	Nickel alloys	Co	ASTM E 354
310	CHEMICAL- METALS & ALLOYS	Nickel alloys	Co	ASTM E 75
311	CHEMICAL- METALS & ALLOYS	Nickel alloys	Co	STP-ICP-OES-03
312	CHEMICAL- METALS & ALLOYS	Nickel alloys	Cr	ASTM E 354
313	CHEMICAL- METALS & ALLOYS	Nickel alloys	Cr	STP-ICP-OES-03
314	CHEMICAL- METALS & ALLOYS	Nickel alloys	Cu	ASTM E 354
315	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Cu	STP-ICP-OES-03
316	CHEMICAL- METALS & ALLOYS	Nickel alloys	Fe	ASTM E 75
317	CHEMICAL- METALS & ALLOYS	Nickel alloys	Fe	IS 1952

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318	CHEMICAL- METALS & ALLOYS	Nickel alloys	Fe	STP-ICP-OES-03
319	CHEMICAL- METALS & ALLOYS	Nickel alloys	Mn	ASTM E 354
320	CHEMICAL- METALS & ALLOYS	Nickel alloys	Mn	IS 1952
321	CHEMICAL- METALS & ALLOYS	Nickel alloys	Mn	STP-ICP-OES-03
322	CHEMICAL- METALS & ALLOYS	Nickel alloys	Mo	ASTM E 354
323	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Mo	ASTM E3047
324	CHEMICAL- METALS & ALLOYS	Nickel alloys	Mo	STP CH 13 ISSUE 1
325	CHEMICAL- METALS & ALLOYS	Nickel alloys	Mo	STP-ICP-OES-03
326	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Nb	ASTM E3047
327	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Nb	STP-ICP-OES-03
328	CHEMICAL- METALS & ALLOYS	Nickel alloys	P	ASTM E 354
329	CHEMICAL- METALS & ALLOYS	Nickel Alloys	P	ASTM E3047
330	CHEMICAL- METALS & ALLOYS	Nickel alloys	S	ASTM E 1019
331	CHEMICAL- METALS & ALLOYS	Nickel Alloys	S	ASTM E3047
332	CHEMICAL- METALS & ALLOYS	Nickel alloys	Si	ASTM E 354
333	CHEMICAL- METALS & ALLOYS	Nickel alloys	Si	STP-ICP-OES-03
334	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Ta	ASTM E3047
335	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Ta	STP-ICP-OES-03
336	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Ti	ASTM E3047

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337	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Ti	STP-ICP-OES-03
338	CHEMICAL- METALS & ALLOYS	Nickel Alloys	V	ASTM E3047
339	CHEMICAL- METALS & ALLOYS	Nickel Alloys	W	ASTM E3047
340	CHEMICAL- METALS & ALLOYS	Nickel Alloys	W	STP-ICP-OES-03
341	CHEMICAL- METALS & ALLOYS	Nickel Alloys	Zr	ASTM E3047
342	CHEMICAL- METALS & ALLOYS	Nickel Base	Al	ASTM E3047
343	CHEMICAL- METALS & ALLOYS	Nickel Base	B	ASTM E3047
344	CHEMICAL- METALS & ALLOYS	Nickel Base	C	ASTM E3047
345	CHEMICAL- METALS & ALLOYS	Nickel Base	Co	ASTM E3047
346	CHEMICAL- METALS & ALLOYS	Nickel Base	Cr	ASTM E3047
347	CHEMICAL- METALS & ALLOYS	Nickel Base	Cu	ASTM E3047
348	CHEMICAL- METALS & ALLOYS	Nickel Base	Fe	ASTM E3047
349	CHEMICAL- METALS & ALLOYS	Nickel Base	Mg	ASTM E3047
350	CHEMICAL- METALS & ALLOYS	Nickel Base	Mn	ASTM E3047
351	CHEMICAL- METALS & ALLOYS	Nickel Base	Si	ASTM E3047
352	CHEMICAL- METALS & ALLOYS	Pure Copper	Ag	BS EN 15079
353	CHEMICAL- METALS & ALLOYS	Pure Copper	Al	BS EN 15079
354	CHEMICAL- METALS & ALLOYS	Pure Copper	As	BS EN 15079
355	CHEMICAL- METALS & ALLOYS	Pure Copper	Be	BS EN 15079

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356	CHEMICAL- METALS & ALLOYS	Pure Copper	Bi	BE EN 15079
357	CHEMICAL- METALS & ALLOYS	Pure Copper	Co	BS EN 15079
358	CHEMICAL- METALS & ALLOYS	Pure Copper	Cr	BS EN 15079
359	CHEMICAL- METALS & ALLOYS	Pure Copper	Cu	ASTM E53
360	CHEMICAL- METALS & ALLOYS	Pure Copper	Cu	IS 440
361	CHEMICAL- METALS & ALLOYS	Pure Copper	Fe	BS EN 15079
362	CHEMICAL- METALS & ALLOYS	Pure Copper	Mn	BS EN 15079
363	CHEMICAL- METALS & ALLOYS	Pure Copper	Ni	BS EN 15079
364	CHEMICAL- METALS & ALLOYS	Pure Copper	P	BS EN 15079
365	CHEMICAL- METALS & ALLOYS	Pure Copper	Pb	BS EN 15079
366	CHEMICAL- METALS & ALLOYS	Pure Copper	S	BS EN 15079
367	CHEMICAL- METALS & ALLOYS	Pure Copper	Sb	BS EN 15079
368	CHEMICAL- METALS & ALLOYS	Pure Copper	Se	BS EN 15079
369	CHEMICAL- METALS & ALLOYS	Pure Copper	Si	BS EN 15079
370	CHEMICAL- METALS & ALLOYS	Pure Copper	Sn	BS EN 15079
371	CHEMICAL- METALS & ALLOYS	Pure Copper	Te	BS EN 15079
372	CHEMICAL- METALS & ALLOYS	Pure Copper	Zn	BS EN 15079
373	CHEMICAL- METALS & ALLOYS	Pure Lead	Ag	DD ENV 12908
374	CHEMICAL- METALS & ALLOYS	Pure Lead	As	DD ENV 12908

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375	CHEMICAL- METALS & ALLOYS	Pure Lead	Bi	DD EN 12908
376	CHEMICAL- METALS & ALLOYS	Pure Lead	Ca	DD EN 12908
377	CHEMICAL- METALS & ALLOYS	Pure Lead	Cd	DD ENV 12908
378	CHEMICAL- METALS & ALLOYS	Pure lead	Cu	DD ENV 12908
379	CHEMICAL- METALS & ALLOYS	Pure Lead	Pb	IS 403
380	CHEMICAL- METALS & ALLOYS	Pure Lead	S	DD ENV 12908
381	CHEMICAL- METALS & ALLOYS	Pure Lead	Sb	DD ENV 12908
382	CHEMICAL- METALS & ALLOYS	Pure lead	Se	DD ENV 12908
383	CHEMICAL- METALS & ALLOYS	Pure Lead	Sn	DD ENV 12908
384	CHEMICAL- METALS & ALLOYS	Pure Lead	Te	DD ENV 12908
385	CHEMICAL- METALS & ALLOYS	Pure Lead	Zn	DD ENV 12908
386	CHEMICAL- METALS & ALLOYS	Silico Manganese	C	ASTM E 1019
387	CHEMICAL- METALS & ALLOYS	Silico Manganese	Mn	IS 1559
388	CHEMICAL- METALS & ALLOYS	Silico Manganese	S	ASTM E 1019
389	CHEMICAL- METALS & ALLOYS	Silico Manganese	Si	IS 1559
390	CHEMICAL- METALS & ALLOYS	Solder	Ag	STP CH 04 ISSUE 01
391	CHEMICAL- METALS & ALLOYS	Solder	Al	STP CH 04 ISSUE 01
392	CHEMICAL- METALS & ALLOYS	Solder	As	STP CH 04 ISSUE 01
393	CHEMICAL- METALS & ALLOYS	Solder	Bi	STP CH 04 ISSUE 01

SCOPE OF ACCREDITATION

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394	CHEMICAL- METALS & ALLOYS	Solder	Cd	STP CH 04 ISSUE 01
395	CHEMICAL- METALS & ALLOYS	Solder	Cu	STP CH 04 ISSUE 01
396	CHEMICAL- METALS & ALLOYS	Solder	Fe	STP CH 04 ISSUE 01
397	CHEMICAL- METALS & ALLOYS	Solder	Ni	STP CH 04 ISSUE 01
398	CHEMICAL- METALS & ALLOYS	Solder	Pb	IS 403
399	CHEMICAL- METALS & ALLOYS	Solder	Sb	STP CH 04 ISSUE 01
400	CHEMICAL- METALS & ALLOYS	Solder	Sn	STP CH 04 ISSUE 01
401	CHEMICAL- METALS & ALLOYS	Solder	Zn	STP CH 04 ISSUE 01
402	CHEMICAL- METALS & ALLOYS	Stainless steel	Al	JIS G1253
403	CHEMICAL- METALS & ALLOYS	Stainless steel	B	IS 9879
404	CHEMICAL- METALS & ALLOYS	Stainless steel	B	JIS G1253
405	CHEMICAL- METALS & ALLOYS	Stainless Steel	C	ASTM E 1086
406	CHEMICAL- METALS & ALLOYS	Stainless Steel	C	IS 9879
407	CHEMICAL- METALS & ALLOYS	Stainless steel	Co	JIS G1253
408	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cr	ASTM E 1086
409	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cr	IS 9879
410	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cu	ASTM E 1086
411	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cu	IS 9879
412	CHEMICAL- METALS & ALLOYS	Stainless Steel	Mn	ASTM E 1086

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413	CHEMICAL- METALS & ALLOYS	Stainless Steel	Mn	IS 9879
414	CHEMICAL- METALS & ALLOYS	Stainless Steel	Mo	ASTM E 1086
415	CHEMICAL- METALS & ALLOYS	Stainless Steel	Mo	IS 9879
416	CHEMICAL- METALS & ALLOYS	Stainless steel	N	'JIS G1253
417	CHEMICAL- METALS & ALLOYS	Stainless steel	N	JIS G1253
418	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nb	JIS G1253
419	CHEMICAL- METALS & ALLOYS	Stainless Steel	Ni	ASTM E 1086
420	CHEMICAL- METALS & ALLOYS	Stainless Steel	Ni	IS 9879
421	CHEMICAL- METALS & ALLOYS	Stainless Steel	P	ASTM E 1086
422	CHEMICAL- METALS & ALLOYS	Stainless Steel	P	IS 9879
423	CHEMICAL- METALS & ALLOYS	Stainless steel	Pb	'JIS G1253
424	CHEMICAL- METALS & ALLOYS	Stainless steel	Pb	JIS G1253
425	CHEMICAL- METALS & ALLOYS	Stainless Steel	S	ASTM E 1086
426	CHEMICAL- METALS & ALLOYS	Stainless Steel	S	IS 9879
427	CHEMICAL- METALS & ALLOYS	Stainless Steel	Si	ASTM E 1086
428	CHEMICAL- METALS & ALLOYS	Stainless Steel	Si	IS 9879
429	CHEMICAL- METALS & ALLOYS	Stainless steel	Ta	JIS G1253
430	CHEMICAL- METALS & ALLOYS	Stainless Steel	Ti	JIS G1253
431	CHEMICAL- METALS & ALLOYS	Stainless steel	V	JIS G1253

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432	CHEMICAL- METALS & ALLOYS	Stainless steel	W	JIS G1253
433	CHEMICAL- METALS & ALLOYS	Tool Steel	Al	JIS G1253
434	CHEMICAL- METALS & ALLOYS	Tool Steel	C	JIS G1253
435	CHEMICAL- METALS & ALLOYS	Tool Steel	Co	JIS G1253
436	CHEMICAL- METALS & ALLOYS	Tool Steel	Cr	JIS G1253
437	CHEMICAL- METALS & ALLOYS	Tool Steel	Cu	JIS G1253
438	CHEMICAL- METALS & ALLOYS	Tool Steel	Mn	JIS G1253
439	CHEMICAL- METALS & ALLOYS	Tool Steel	Mo	JIS G1253
440	CHEMICAL- METALS & ALLOYS	Tool Steel	Ni	JIS G1253
441	CHEMICAL- METALS & ALLOYS	Tool Steel	P	JIS G1253
442	CHEMICAL- METALS & ALLOYS	Tool Steel	S	JIS G1253
443	CHEMICAL- METALS & ALLOYS	Tool Steel	Si	JIS G1253
444	CHEMICAL- METALS & ALLOYS	Tool Steel	V	JIS G1253
445	CHEMICAL- METALS & ALLOYS	Tool Steel	W	JIS G1253
446	CHEMICAL- WATER	Water for construction purpose	Acidity	IS 3025 (Part 22)
447	CHEMICAL- WATER	Water for construction purpose	Alkalinity	IS 3025 (Part 23)
448	CHEMICAL- WATER	Water for construction purpose	Chloride content as Cl-	IS 3025 (Part 32)
449	CHEMICAL- WATER	Water for construction purpose	Inorganic Solids (Fixed Residue)	IS 3025 (Part 18)
450	CHEMICAL- WATER	Water for construction purpose	Organic Solids (Volatile Residue)	IS 3025 (Part 18)
451	CHEMICAL- WATER	Water for construction purpose	pH value	IS 3025 (Part 11)
452	CHEMICAL- WATER	Water for construction purpose	Sulphate content as SO3	IS 3025 (Part 24)

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453	CHEMICAL- WATER	Water for construction purpose	Suspended Matter	IS 3025 (Part 17)
454	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Abrasion Resistance (Los Angeles abrasion Value)	IS 2386 (Part 4)
455	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Aggregate Crushing Value	IS 2386 (Part 4)
456	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Aggregate Impact Value	IS 2386 (Part 4)
457	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Angularity number	IS 2386 (Part 1)
458	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Apparent specific gravity	IS 2386 (Part 3)
459	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Bulk Density (Loose & Rodded)	IS 2386 (Part 3)
460	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Clay Lumps	IS 2386 (Part 2)
461	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Determination of 10% fines value	IS 2386 (Part 4)
462	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Elongation Index	IS 2386 (Part 1)
463	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Fineness Modulus	IS 2386 (Part 1)
464	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Flakiness Index	IS 2386 (Part 1)
465	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Sieve Analysis	IS 2386 (Part 1)
466	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Sp gravity	IS 2386 (Part 3)
467	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Specific gravity based on SSD	IS 2386 (Part 3)
468	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Water Absorption	IS 2386 (Part 3)
469	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Apparent specific gravity	IS 2386 (Part 3)
470	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Bulk Density (Loose & Rodded)	IS 2386 (Part 3)
471	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Bulking	IS 2386 (Part 3)

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472	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Clay Lumps	IS 2386 (Part 2)
473	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Fineness Modulus	IS 2386 (Part 1)
474	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Moisture Content	IS 2386 (Part 3)
475	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Particle Finer than 75 microns	IS 2386 (Part 1)
476	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Sieve Analysis	IS 2386 (Part 1)
477	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Sp Gravity	IS 2386 (Part 3)
478	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Specific gravity based on SSD	IS 2386 (Part 3)
479	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Water Absorption	IS 2386 (Part 3)
480	MECHANICAL- BUILDINGS MATERIALS	Autoclaved cellular aerated concrete blocks	Compressive strength	IS 2185 (Part 3)
481	MECHANICAL- BUILDINGS MATERIALS	Autoclaved cellular aerated concrete blocks	Unit weight or Bulk density	IS 2185 (Part 3)
482	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Compressive Strength	IS 3495 (Part 1)
483	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Efflorescence	IS 3495 (Part 3)
484	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Water Absorption	IS 3495 (Part 2)
485	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6)
486	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4)
487	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part 11)
488	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5)
489	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness dry sieve method	IS 4031 (Part 1)
490	MECHANICAL- BUILDINGS MATERIALS	Cement	Finess Blaine's	IS 4031 (Part 2)

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491	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5)
492	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness (Le-chateliers method)	IS 4031 (Part 3)
493	MECHANICAL- BUILDINGS MATERIALS	Cement Grout	Compressive Strength	ASTM C1107
494	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 15622 Amd 1
495	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks Hollow/Solid	Block Density	IS 2185 (Part 1)
496	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks Hollow/Solid	Compressive Strength	IS 2185 (Part 1)
497	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks Hollow/Solid	Water Absorption	IS 2185 (Part 1)
498	MECHANICAL- BUILDINGS MATERIALS	Concrete core	Compressive strength	IS 516 Part4
499	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516
500	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive strength by accelerated curing method	IS 516 (Part 3)
501	MECHANICAL- BUILDINGS MATERIALS	Concrete cube	Compressive strength by accelerated curing method	IS 9013
502	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Comparative Compressive Strength	IS 1727
503	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness	IS 1727
504	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Residue on 45 micron Seive	IS 1727
505	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Gravity	IS 1727
506	MECHANICAL- BUILDINGS MATERIALS	Granulated Slag	Finess by Blaine's	IS 16714
507	MECHANICAL- BUILDINGS MATERIALS	Granulated Slag	Slag Activity Index	IS 16714
508	MECHANICAL- BUILDINGS MATERIALS	Natural Building Stones	Apparent Sp Gravity	IS 1124
509	MECHANICAL- BUILDINGS MATERIALS	Natural Building Stones	Compressive Strength	IS 1121 (Part 1)

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510	MECHANICAL- BUILDINGS MATERIALS	Natural building stones	Porosity	IS 1124
511	MECHANICAL- BUILDINGS MATERIALS	Natural Building Stones	Transverse Strength	IS 1121 (Part 2)
512	MECHANICAL- BUILDINGS MATERIALS	Natural Building Stones	Water Absorption	IS 1124
513	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension - Length	IS 15658:
514	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658-
515	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
516	MECHANICAL- BUILDINGS MATERIALS	Pavers Block	Dimension - Thickness	IS 15658
517	MECHANICAL- BUILDINGS MATERIALS	Pavers Block	Dimension-Width	IS 15658
518	MECHANICAL- BUILDINGS MATERIALS	Pavers Block	Flexural Strength	IS 15658
519	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloys	Brinell Hardness test	ASTM A370 Sec.17
520	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Alloys	Hardness, HRA	ASTM A370 Sec.18
521	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloys	Rockwell hardness, HRC	ASTM A370 sec18
522	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloys (wrought and cast products)	% Elongation	ASTM A 370 Sec 6-14
523	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloys (wrought and cast products)	% Reduction in area	ASTM A370 Sec 6-14
524	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloys (wrought and cast products)	Tensile Strength	ASTM A 370 SEC 6-14
525	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloys(for wrought & cast products) (on flats upto 50 mm thick, round upto 50 mm dia)	Bend Test	ASTM A370 sec15

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526	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloys	Rockwell Hardness, HRBW	ASTM A370 sec18
527	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys	Rockwell Hardness, HRBW	ASTM E18
528	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys	Rockwell Hardness, HRBW	IS 1586 part 1
529	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys	Rockwell Hardness, HRC	ASTM E18
530	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys	Rockwell Hardness, HRC	IS 1586 part 1
531	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	% Elongation	ASTM E8/E8M
532	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	% Elongation	IS 1608-(Part 1)
533	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	% Elongation	ISO 6892 - 1
534	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	% Reduction in area	ASTM E8/E8M
535	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	% Reduction in area	IS 1608-Part 1
536	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	% Reduction in area	ISO 6892 - 1
537	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	0.1% Offset Yield Strength	ASTM A 370 Sec 6-14
538	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	0.1% Offset Yield Strength	ASTM E8/E8M
539	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	0.1% Proof Stress	IS 1608 (Part 1)

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540	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	0.1% Proof stress	ISO 6892-1
541	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	0.2% Offset Yield Strength	ASTM A 370 Sec 6-14
542	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	0.2% Offset Yield Strength	ASTM E8/E8M
543	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	0.2% Proof Stress	ISO 6892 -1
544	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	0.5% Offset Yield Strength	ASTM A 370 Sec 6-14
545	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	0.5% Offset Yield Strength	ASTM E8/E8M
546	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	0.5% Proof stress	IS 1608 (Part 1)
547	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	0.5% Proof stress	ISO 6892-1
548	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	1.0% Offset Yield Strength	ASTM A 370 Sec 6-14
549	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	1.0% Offset Yield Strength	ASTM E8/E8M
550	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	1.0% Proof stress	IS 1608 (Part 1)
551	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	1.0% Proof stress	ISO 6892-1
552	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	Tensile Strength	ASTM E8/E8M
553	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	Tensile Strength	IS 1608-(Part 1)

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554	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	Tensile Strength	ISO 6892-1
555	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	Yield Stress	ASTM A370 Sec. 6-14
556	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	Yield Stress	ASTM E8/E8M
557	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys (wrought and cast products)	Yield Stress	ISO 6892-1
558	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous alloys and hard metals, welded joints	Vickers Hardness Test	ASTM E 384
559	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous alloys and hard metals, welded joints	Vickers Hardness Test	ASTM E 384
560	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous alloys and hard metals, welded joints	Vickers Hardness test	ASTM E 384
561	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous alloys and hard metals, welded joints	Vickers Hardness test	ASTM E384
562	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys(for wrought & cast products) (on flats upto 50 mm thick, round upto 50 mm dia)	Bend Test	IS 1599
563	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys(for wrought & cast products) (on flats upto 50 mm thick, round upto 50 mm dia)	Bend Test	IS 1786
564	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous fasteners (Nuts, M4 to M39)	Proof Load Test	ISO 898 - part 6 cl 9
565	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Metallic Materials and its alloys	Lateral Expansion (Impact Test)	ASTM E23
566	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys	Brinell Hardness test	ASTM A370 Sec.17
567	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys	Brinell Hardness test	ASTM E10

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568	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys	Brinell Hardness test	ASTM E10
569	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys	Brinell Hardness test	IS:1500-Part 1
570	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys	Brinell Hardness test	IS:1500-Part 1
571	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous alloys	Hardness, HRA	ASTM E18
572	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Alloys	Hardness, HRA	IS:1586-Part 1-
573	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys (wrought and cast products)	0.2% proof Stress	IS 1608-(Part 1)
574	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys (wrought and cast products)	Yield Stress	IS 1608 (Part 1)
575	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness Test	ASTM E 384
576	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness Test	ASTM E 384
577	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness Test	ASTM E 92
578	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness Test	ASTM E 92
579	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness Test	ASTM E 92
580	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	ASTM E92
581	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	ASTM E92

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582	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	ASTM E92
583	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	IS 1501 Part 1
584	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	IS 1501 Part 1
585	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	IS 1501 Part 1
586	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	IS 1501 Part 1
587	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	IS 1501 Part 1
588	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	IS 1501 Part 1
589	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	IS 1501 Part 1
590	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	IS 1501 part 1
591	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test	IS 1501 Part 1
592	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness test HV0.05	ASTM E92
593	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness Test HV0.1	ASTM E92
594	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness Test HV0.2	ASTM E92
595	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness Test HV0.3	ASTM E92

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596	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous alloys and hard metals, Welded joints	Vickers Hardness Test HV0.5	ASTM E92
597	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous material	Izod Impact Test	ASTM E23
598	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous Welded joints, Hardfacings and Overlays	Vickers Hardness test	BS EN ISO 9015-1
599	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous Welded joints, Hardfacings and Overlays	Vickers Hardness test	BS EN ISO 9015-1
600	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous Welded joints, Hardfacings and Overlays	Vickers Hardness test	BS EN ISO 9015-1
601	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and NonFerrous Metallic Materials and its alloys	Charpy Impact Test (RT to -196 degree Celsius)	ASTM E23
602	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and NonFerrous Metallic Materials and its alloys	Charpy Impact Test (RT to -196 degree Celsius)	ISO 148-1
603	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and NonFerrous Metallic Materials and its alloys	Charpy U Impact Test (RT to -196 degree Celsius)	IS 1499
604	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and NonFerrous Metallic Materials and its alloys	Charpy V Impact Test (RT to -196 degree Celsius)	IS 1757 - Part 1
605	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and NonFerrous Metallic Materials and its alloys	Lateral Expansion Impact test	ISO 148-1
606	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and NonFerrous Metallic Materials and its alloys	Percent Shear Fracture (Impact Test)	ISO 148-1:
607	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and NonFerrous Metallic Materials and its alloys	Izod impact Test	IS 1598
608	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hard Metals	Vickers Hardness test	ASTM E92
609	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hard metals	Vickers Hardness test	IS 12783

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610	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hardmetals	Vickers Hardness test	IS 12783
611	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hardmetals	Vickers Hardness test	IS 12783
612	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Helical Compression springs	Static Load Test in Compression	IS 7906 (Part 2) Cl 7.1
613	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-ferrous alloys	Brinell Hardness test	ASTM E10
614	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-ferrous alloys	Brinell Hardness test	IS:1500-Part 1
615	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel up to 36 mm	% Elongation	IS 1608-(Part 1)
616	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel up to 36 mm	% Elongation	IS 1786
617	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel up to 36 mm	0.2 % Proof Stress	IS 1786
618	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel up to 36 mm	0.2% Proof Strength	IS 1608-(Part 1):
619	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel up to 36 mm	Mass/Unit length	IS 1786
620	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Up to 36 mm	Re-bend Test	IS 1786
621	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel up to 36 mm	Tensile Strength	IS 1608-(Part 1)
622	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel up to 36 mm	Tensile Strength	IS 1786
623	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel up to 36 mm	Total Elongation at maximum force	IS 1608

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624	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel up to 36 mm	Total Elongation at maximum force	IS 1786
625	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel up to 36 mm	TS/YS ratio	IS 1786
626	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tube	Crushing Test	IS 3074
627	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Drift expansion	IS 2335
628	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Flattening test	ASTM A530/530M cl 21
629	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Flattening test	IS 2328
630	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes and Plates	Dimension Inspection (mass per unit length)	IS 1239 (Part 1)
631	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes and Plates	Dimension Inspection (OD)	IS 1239 (Part 1)
632	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes and Plates	Dimension Inspection (Thickness)	IS 1239 (Part 1)
633	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and its related alloy materials	Charpy Impact Test (RT to -196 degree Celsius)	ASTM A370 Sec20-29
634	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and its related alloy materials	Lateral Expansion (Impact Test)	ASTM A370
635	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and its related alloy materials	Percent shear Fracture (Impact Test)	ASTM A370
636	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and its related alloy materials	Percent shear Fracture (Impact Test)	ASTM E23
637	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Bend Test	ASME BPVC.IX

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638	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Bend Test	AWS D.1D1.1M
639	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Bend Test	AWS D1.2/D1.2M
640	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Bend Test	BS EN ISO 9606-1
641	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Bend Test	IS 3600 (Part 7)
642	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Bend Test	IS 3600-(Part 5)
643	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Bend Test	ISO 15614 - 1
644	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Fillet Break Test	ASME BPVC. IX, QW-182
645	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Fillet Break Test	IS 3600 (Part 8)
646	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Fillet Break Test	ISO 9017
647	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Impact Test	ASTM A370 sec 20-29
648	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Impact Test	AWS D1.1D1.1M
649	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Impact Test	IS 1757 part 1
650	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Impact Test	IS 3600 (Part 2)
651	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Impact Test	ISO 148-1

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652	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Tensile Test	ASME BPVC.IX
653	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Tensile Test	AWS D1.1D1.1M
654	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Tensile Test	AWS D1.2/D1.2M
655	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Tensile Test	IS 3600 (Part 4)
656	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Tensile Test	IS 3600 part 3
657	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products	Tensile Test	ISO 15614 - 1
658	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products (Brazing Butt, Lap & Rabbet joint)	Bend Test	ASME BPVC.IX (QB160, QB161, QB162, QB163)
659	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products (Brazing, Butt, Lap & Rabbet joint)	Tensile test	ASME BPVC.IX (QB150, QB151, QB153)
660	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Products (Brazing, Butt, Lap & Rabbet joint)	Tensile test	ASME BPVC.IX (QB150, QB151, QB153)
661	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Wire Mesh	Dimensional Inspection Mass/m2	IS 1566
662	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Wire Mesh	Dimensional Inspection Mesh Size	IS 1566
663	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Wire Mesh	Dimensional Inspection Wire Dia	IS 1566
664	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wires	Wrap Test	ASTM A370, Annex. A4.7
665	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	% Elongation	ASTM B557

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666	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	% Reduction in Area	ASTM B557
667	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	0.1% Proof stress	ASTM B557
668	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	0.2% Offset Yield Strength	ASTM B557
669	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	0.5% Proof stress	ASTM B557
670	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	1.0% Proof stress	ASTM B557
671	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	Tensile Strength	ASTM B557
672	MECHANICAL-METALLOGRAPHY TEST	Austenitic and Duplex Stainless Steel	Intergranular Corrosion Test (Huey Test)	ISO 3651-1
673	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Intergranular corrosion test	ASTM A262 (Practice B)
674	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Intergranular corrosion test	ASTM A262 (Practice C)
675	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Intergranular corrosion test	Practice A, of ASTM A262
676	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Intergranular corrosion test	Practice E of ASTM A262
677	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Intergranular Corrosion Test	Practice F of ASTM A262
678	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless steels	Resistance to Intergranular corrosion - Method of determination (Huey test)	IS 10461 (Part 1)
679	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steels	Resistance to Intergranular corrosion - Method of determination (Monypenny Strauss test))	IS 10461 (Part 2)
680	MECHANICAL-METALLOGRAPHY TEST	Carbon and Alloy Steel Wire, Rods, Bars and others	Microstructural analysis-% Spheroidisation Photomicrographs	ASTM F2282

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681	MECHANICAL-METALLOGRAPHY TEST	Case Hardened Steels	Case depth by Microscopic Method (100X)	IS 6416 (Cl.8)
682	MECHANICAL-METALLOGRAPHY TEST	Case Hardened Steels	Case depth by hardness method	IS:6416 (Cl. 5)
683	MECHANICAL-METALLOGRAPHY TEST	Cast billets, extruded, rolled and drawn products, such as, bars, profiles, sheets, wires, etc, and forgings	Macrostructural analysis by visual and low magnification examination Photo-macrography	IS 12573
684	MECHANICAL-METALLOGRAPHY TEST	Cast Irons	Microstructural analysis Photomicrographs	ASM Handbook volume 9
685	MECHANICAL-METALLOGRAPHY TEST	Cast Irons	Microstructural of Graphite in Cast Iron, Photomicrographs	IS 7754
686	MECHANICAL-METALLOGRAPHY TEST	Consumable Electrode Remelted Steel Bars and Billets	Macrostructural Analysis by visual and low magnification examination Photomacrography	ASTM A 604/A604M-07
687	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Detection of Detrimental intermetallic Phases Method A	ASTM A923
688	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Detection of Detrimental intermetallic Phases Method C	ASTM A923
689	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	Intergranular Attack in Ferritic Steel Practice W Practice Z	ASTM A763-
690	MECHANICAL-METALLOGRAPHY TEST	Ferritic, Austenitic & Duplex Stainless Steel	Intergranular Corrosion Test Method A	ISO 3651-2
691	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Weld Joints (Qualification Test for welders and welding operators)	Macroscopic Examination by visual and low magnification examination Photo-macrography	ISO 24394
692	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Weld Joints (Qualification Test of welding procedures)	Macroscopic Examination by visual and low magnification examination Photo-macrography	ISO 15614-1
693	MECHANICAL-METALLOGRAPHY TEST	Ferrous and non-ferrous alloys	Grain size / austenitic grain size by comparative method	ASTM E112 (cl.10)
694	MECHANICAL-METALLOGRAPHY TEST	Ferrous and non-ferrous alloys	Grain size / austenitic grain size by Comparison method	IS 4748 (Cl. 7.1.2)
695	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Billets, Blooms, Bars, Forgings, Rolled and Extruded Products, Sheets, Plates, castings, Machined and Ground parts	Macrostructural analysis by visual and low magnification examination Photo-macrography	ASM Handbook Vol.9

SCOPE OF ACCREDITATION

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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
696	MECHANICAL-METALLOGRAPHY TEST	Ferrous Billets, Blooms, bars, forgings, rolled products, Extrusion, Sheets, Plates, and castings, consumable electrode remelted steel bars and billets, Welded joints, Machined and Ground Parts	Macrostructural analysis by visual and low magnification examination Photo-macrography	IS 7739 (Part V) , ASM handbook volume 9,
697	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous	Microstructural analysis Photomicrographs	ASM Handbook Vol.9
698	MECHANICAL-METALLOGRAPHY TEST	Ferrous-Iron and Steel, Non-Ferrous-Zinc and its alloys	Microstructural analysis Photomicrographs	IS 7739 (Part V & XI), ASM Handbook volume 9
699	MECHANICAL-METALLOGRAPHY TEST	Hardmetals	Microstructural analysis Photomicrographs	IS 11959
700	MECHANICAL-METALLOGRAPHY TEST	Metallic/non-metallic coatings on iron base, copper base, aluminium base, etc	Coating thickness by microscopic method	IS 5523 (Cl.2.2)
701	MECHANICAL-METALLOGRAPHY TEST	Metallic/non-metallic coatings on iron base, copper base, aluminium base, etc	Coating/Plating thickness by microscopic method	IS 3203 (Cl. 3)
702	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Macrostructural analysis by visual and low magnification examination Photo-macrography	ASTM E340
703	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous - Aluminium, Copper, Lead, Magnesium, Nickel, Au, Ag, Pt, Pd, Tin, Zinc and all its alloys	Microstructural analysis Photomicrographs	IS: 7739 Part III, IV, VI, VII, VIII, IX,X-1975 RA ASM Handbook volume 9
704	MECHANICAL-METALLOGRAPHY TEST	Organic/non-metallic coatings on iron base,copper base, aluminium base, etc	Coating thickness by microscopic method	IS 101 (Part 3/ Sec. 2)
705	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Determination of Delta Ferrite content by Point Count Method	AMS 2315 Rev.F Cl.3.2.1
706	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Determination of Volume fraction of phase	ASTM E562
707	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel and Related Alloys	Critical Crevice Temperature Test for Nickel - Base and Chromium bearing alloys - Method D	ASTM G48
708	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel and Related Alloys	Critical Crevice Temperature Test for Stainless Steel - Method F	ASTM G48
709	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel and Related Alloys	Critical Pitting Temperature test for Nickel- Base and Chromium bearing alloys - Method C	ASTM G48
710	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel and Related Alloys	Critical Pitting Temperature test for Stainless Steel - Method E	ASTM G48

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711	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel and Related Alloys	Ferric Chloride Crevice Corrosion Test - Method B	ASTM G48
712	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel and Related Alloys	Ferric Chloride Pitting Test - Method A	ASTM G48
713	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, Billets, Blooms, and Forgings	Macrostructural analysis by visual and low magnification examination Photo-macrography	IS 13015
714	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, Blooms, Billets, and Forgings	Macrostructural analysis by visual and low magnification examination Photo-macrography	ASTM E381
715	MECHANICAL-METALLOGRAPHY TEST	Steel products	Depth of decarburized layer by Hardness Method	IS 6396 (Cl. 7)
716	MECHANICAL-METALLOGRAPHY TEST	Steel products	Depth of decarburized layer by Microscopic Method	IS 6396 (Cl.6)
717	MECHANICAL-METALLOGRAPHY TEST	Steel products	Inclusion rating, Method 'A'	ASTM E45
718	MECHANICAL-METALLOGRAPHY TEST	Steel products	Inclusion rating, Method 'A'	IS 4163
719	MECHANICAL-METALLOGRAPHY TEST	Steel products - bars, billets, blooms, sheets, plates, and forgings.	Macrostructural analysis by visual and low magnification examination Photo-macrography	IS 11371
720	MECHANICAL-METALLOGRAPHY TEST	Thin Surface hardened steels	Total case depth / compound (white) layer thickness	IS 13691 (Cl. 2.1)
721	MECHANICAL-METALLOGRAPHY TEST	Welded and Brazed Joints, Hardfacing Overlays	Macro Examination/Section Test by visual and low magnification examination Photo-macrography	ASME BPVC.IX
722	MECHANICAL-METALLOGRAPHY TEST	Welded Joints	Macroscopic Examination by visual and low magnification examination Photo-macrography	DIN EN1321
723	MECHANICAL-METALLOGRAPHY TEST	Welded Joints	Macroscopic Examination by visual and low magnification examination Photo-macrography	ISO 17639
724	MECHANICAL-METALLOGRAPHY TEST	Welded joints in Steel	Macrostructural analysis by visual and low magnification examination Photo-macrography	IS 3600 (Part 9)

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725	MECHANICAL-METALLOGRAPHY TEST	Welded joints in Steel	Microstructural analysis Photomicrographs	IS 3600 (Part 9)
726	MECHANICAL-METALLOGRAPHY TEST	Welded Joints-Steel(Qualification Testing of Welders)	Macroscopic Examination by visual and low magnification examination Photo-macrography	BS EN ISO 9606-1
727	MECHANICAL-METALLOGRAPHY TEST	Wrought Nickel Rich Chromium Bearing Alloys	Intergranular corrosion Test Method A	ASTM G28