



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

URJA METALLURGICAL SERVICES LLP

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

J/P-15, TELCO-BHOSARI ROAD, BHOSARI MIDC, PUNE, MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-13736

Issue Date: 22/05/2024

Valid Until: 21/05/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: URJA METALLURGICAL SERVICES LLP

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : URJA METALLURGICAL SERVICES LLP, J/P-15, TELCO-BHOSARI ROAD, BHOSARI MIDC, PUNE, MAHARASHTRA, 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 Testing				
1	CHEMICAL- CORROSION TESTS	Electroplated and Anodized Aluminium Coatings	Salt Spray Test	IS 9844
2	CHEMICAL- CORROSION TESTS	Metal and their alloys, Metallic Coatings, Conversion Coatings, Anodic Oxide coatings, Organic coatings on metallic materials	Salt Spray Test	ASTM B117
3	CHEMICAL- CORROSION TESTS	Metal and their alloys, Metallic Coatings, Conversion Coatings, Anodic Oxide coatings, Organic coatings on metallic materials, decorative coatings of Copper, Nickel & Chromium or Nickel and Chromium, Anodic Coatings on Aluminium	Salt Spray Test	ISO 9227, ISO 4628 Part 2, 3, 4, 5 and 8
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Antimony (Sb)	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Beryllium (Be)	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Bismuth (Bi)	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium (Cr)	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Cobalt (Co)	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper (Cu)	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron (Fe)	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead (Pb)	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium (Mg)	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese (Mn)	ASTM E1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel (Ni)	ASTM E1251
15	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon (Si)	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin (Sn)	ASTM E1251
17	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium (Ti)	ASTM E1251



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18	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc (Zn)	ASTM E1251
19	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium (Zr)	ASTM E1251
20	CHEMICAL- METALS & ALLOYS	Austentic and Ferritic Stainless Steels	Carbon (C)	IS 9879
21	CHEMICAL- METALS & ALLOYS	Austentic and Ferritic Stainless Steels	Chromium (Cr)	IS 9879
22	CHEMICAL- METALS & ALLOYS	Austentic and Ferritic Stainless Steels	Copper (Cu)	IS 9879
23	CHEMICAL- METALS & ALLOYS	Austentic and Ferritic Stainless Steels	Manganese (Mn)	IS 9879
24	CHEMICAL- METALS & ALLOYS	Austentic and Ferritic Stainless Steels	Molybdenum (Mo)	IS 9879
25	CHEMICAL- METALS & ALLOYS	Austentic and Ferritic Stainless Steels	Nickel (Ni)	IS 9879
26	CHEMICAL- METALS & ALLOYS	Austentic and Ferritic Stainless Steels	Phosphorus (P)	IS 9879
27	CHEMICAL- METALS & ALLOYS	Austentic and Ferritic Stainless Steels	Silicon (Si)	IS 9879
28	CHEMICAL- METALS & ALLOYS	Austentic and Ferritic Stainless Steels	Sulfur (S)	IS 9879
29	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Aluminium (Al)	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Boron (B)	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Carbon (C)	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Chromium (Cr)	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Cobalt (Co)	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Copper (Cu)	ASTM E415
35	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Lead (Pb)	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Manganese (Mn)	ASTM E415



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37	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Molybdenum (Mo)	ASTM E415
38	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Nickel (Ni)	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Niobium (Nb)	ASTM E415
40	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Nitrogen (N)	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Phosphorus (P)	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Silicon (Si)	ASTM E415
43	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Sulfur (S)	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Tin (Sn)	ASTM E415
45	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Titanium (Ti)	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Vanadium (V)	ASTM E415
47	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Carbon (C)	ASTM E1999
48	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Chromium (Cr)	ASTM E1999
49	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Copper (Cu)	ASTM E1999
50	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Manganese (Mn)	ASTM E1999
51	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Molybdenum (Mo)	ASTM E1999
52	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Nickel (Ni)	ASTM E1999
53	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Phosphorus (P)	ASTM E1999
54	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Silicon (Si)	ASTM E1999
55	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Sulfur (S)	ASTM E1999



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56	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Titanium (Ti)	ASTM E1999
57	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Vanadium (V)	ASTM E1999
58	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Aluminium (Al)	BS EN 15079
59	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Antimony (Sb)	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Arsenic (As)	BS EN 15079
61	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Bismuth (Bi)	BS EN 15079
62	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Boron (B)	BS EN 15079
63	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Cadmium (Cd)	BS EN 15079
64	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Cobalt (Co)	BS EN 15079
65	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Iron (Fe)	BS EN 15079
66	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Lead (Pb)	BS EN 15079
67	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Magnesium (Mg)	BS EN 15079
68	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Manganese (Mn)	BS EN 15079
69	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Nickel (Ni)	BS EN 15079
70	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Phosphorus (P)	BS EN 15079
71	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Silicon (Si)	BS EN 15079
72	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Sulfur (S)	BS EN 15079
73	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Tin (Sn)	BS EN 15079
74	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Zinc (Zn)	BS EN 15079



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75	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Aluminium (Al)	JIS G1253
76	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Arsenic (As)	JIS G1253
77	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Boron (B)	JIS G1253
78	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Carbon (C)	JIS G1253
79	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Chromium (Cr)	JIS G1253
80	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Cobalt (Co)	JIS G1253
81	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Copper (Cu)	JIS G1253
82	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Lead (Pb)	JIS G1253
83	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Manganese (Mn)	JIS G1253
84	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Molybdenum (Mo)	JIS G1253
85	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Nickel (Ni)	JIS G1253
86	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Niobium (Nb)	JIS G1253
87	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Nitrogen (N)	JIS G1253
88	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Phosphorus (P)	JIS G1253
89	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Silicon (Si)	JIS G1253
90	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Sulfur (S)	JIS G1253
91	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Tin (Sn)	JIS G1253
92	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Titanium (Ti)	JIS G1253
93	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Tungsten (W)	JIS G1253



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94	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Vanadium (V)	JIS G1253
95	CHEMICAL- METALS & ALLOYS	Iron castings & Pig Iron	Aluminium (Al)	IS 15338
96	CHEMICAL- METALS & ALLOYS	Iron castings & Pig Iron	Carbon (C)	IS 15338
97	CHEMICAL- METALS & ALLOYS	Iron castings & Pig Iron	Chromium (Cr)	IS 15338
98	CHEMICAL- METALS & ALLOYS	Iron castings & Pig Iron	Copper (Cu)	IS 15338
99	CHEMICAL- METALS & ALLOYS	Iron castings & Pig Iron	Manganese (Mn)	IS 15338
100	CHEMICAL- METALS & ALLOYS	Iron castings & Pig Iron	Molybdenum (Mo)	IS 15338
101	CHEMICAL- METALS & ALLOYS	Iron castings & Pig Iron	Nickel (Ni)	IS 15338
102	CHEMICAL- METALS & ALLOYS	Iron castings & Pig Iron	Phosphorus (P)	IS 15338
103	CHEMICAL- METALS & ALLOYS	Iron castings & Pig Iron	Silicon (Si)	IS 15338
104	CHEMICAL- METALS & ALLOYS	Iron castings & Pig Iron	Sulfur (S)	IS 15338
105	CHEMICAL- METALS & ALLOYS	Iron castings & Pig Iron	Vanadium (V)	IS 15338
106	CHEMICAL- METALS & ALLOYS	Metallic Materials	Chromium (Cr)	ASTM E1476
107	CHEMICAL- METALS & ALLOYS	Metallic Materials	Cobalt (Co)	ASTM E1476
108	CHEMICAL- METALS & ALLOYS	Metallic Materials	Copper (Cu)	ASTM E1476
109	CHEMICAL- METALS & ALLOYS	Metallic Materials	Iron (Fe)	ASTM E1476
110	CHEMICAL- METALS & ALLOYS	Metallic Materials	Lead (Pb)	ASTM E1476
111	CHEMICAL- METALS & ALLOYS	Metallic Materials	Manganese (Mn)	ASTM E1476
112	CHEMICAL- METALS & ALLOYS	Metallic Materials	Molybdenum (Mo)	ASTM E1476



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113	CHEMICAL- METALS & ALLOYS	Metallic Materials	Nickel (Ni)	ASTM E1476
114	CHEMICAL- METALS & ALLOYS	Metallic Materials	Niobium (Nb)	ASTM E1476
115	CHEMICAL- METALS & ALLOYS	Metallic Materials	Silver (Ag)	ASTM E1476
116	CHEMICAL- METALS & ALLOYS	Metallic Materials	Tin (Sn)	ASTM E1476
117	CHEMICAL- METALS & ALLOYS	Metallic Materials	Titanium (Ti)	ASTM E1476
118	CHEMICAL- METALS & ALLOYS	Metallic Materials	Tungsten (W)	ASTM E1476
119	CHEMICAL- METALS & ALLOYS	Metallic Materials	Vanadium (V)	ASTM E1476
120	CHEMICAL- METALS & ALLOYS	Metallic Materials	Zinc (Zn)	ASTM E1476
121	CHEMICAL- METALS & ALLOYS	Metallic Materials	Antimony (Sb)	ASTM E1476
122	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Aluminium (Al)	ASTM E3047
123	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Boron (B)	ASTM E3047
124	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Carbon (C)	ASTM E3047
125	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Chromium (Cr)	ASTM E3047
126	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Cobalt (Co)	ASTM E3047
127	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Copper (Cu)	ASTM E3047
128	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Iron (Fe)	ASTM E3047
129	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Manganese (Mn)	ASTM E3047
130	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Molybdenum (Mo)	ASTM E3047
131	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Nickel (Ni)	ASTM E3047



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132	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Niobium (Nb)	ASTM E3047
133	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Phosphorus (P)	ASTM E3047
134	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Silicon (Si)	ASTM E3047
135	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Sulfur (S)	ASTM E3047
136	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Tin (Sn)	ASTM E3047
137	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Titanium (Ti)	ASTM E3047
138	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Tungsten (W)	ASTM E3047
139	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Vanadium (V)	ASTM E3047
140	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Aluminium (Al)	IS 8811
141	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Boron (B)	IS 8811
142	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Carbon (C)	IS 8811
143	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Chromium (Cr)	IS 8811
144	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Cobalt (Co)	IS 8811
145	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Copper (Cu)	IS 8811
146	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Manganese (Mn)	IS 8811
147	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Molybdenum (Mo)	IS 8811
148	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Nickel (Ni)	IS 8811
149	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Niobium (Nb)	IS 8811
150	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Phosphorus (P)	IS 8811



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151	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Silicon (Si)	IS 8811
152	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Sulfur (S)	IS 8811
153	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Tin (Sn)	IS 8811
154	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Titanium (Ti)	IS 8811
155	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low Alloy Steels	Vanadium (V)	IS 8811
156	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Carbon (C)	ASTM E1086
157	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Chromium (Cr)	ASTM E1086
158	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Copper (Cu)	ASTM E1086
159	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Manganese (Mn)	ASTM E1086
160	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Molybdenum (Mo)	ASTM E1086
161	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Nickel (Ni)	ASTM E1086
162	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Phosphorus (P)	ASTM E1086
163	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Silicon (Si)	ASTM E1086
164	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Sulfur (S)	ASTM E1086
165	MECHANICAL- BUILDINGS MATERIALS	AAC, CLC blocks Block	Compressive Strength	IS 6441 Part 5, IS 2185 Part 1, 2, 3
166	MECHANICAL- BUILDINGS MATERIALS	AAC, CLC blocks Block	Density	IS 6441 Part 1, IS 2185 Part 1, 2, 3
167	MECHANICAL- BUILDINGS MATERIALS	AAC, CLC blocks Block	Dimensions - Height	IS 2185 Part 1, 2, 3
168	MECHANICAL- BUILDINGS MATERIALS	AAC, CLC blocks Block	Dimensions - Length	IS 2185 Part 1, 2, 3
169	MECHANICAL- BUILDINGS MATERIALS	AAC, CLC blocks Block	Dimensions - Width	IS 2185 Part 1, 2, 3



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Laboratory Name :	URJA METALLURGICAL SERVICES LLP, J/P-15, TELCO-BHOSARI ROAD, BHOSARI MIDC, PUNE, MAHARASHTRA, 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
170	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension - Length	IS 1077
171	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension- Height	IS 1077
172	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension- Width	IS 1077
173	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Efflorescence	IS 3495 Part 3
174	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Compressive strength	IS 3495 Part 1
175	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Water absorption	IS 3495 Part 2
176	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC, PSC)	Compressive strength	IS 4031 Part 6
177	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC, PSC)	Consistency	IS 4031 Part 4
178	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC, PSC)	Density	IS 4031 Part 11
179	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC, PSC)	Determination of fineness by dry sieving	IS 4031 PART 1
180	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC, PSC)	Final setting time	IS 4031 Part 5
181	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC, PSC)	Initial setting time	IS 4031 Part 5
182	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC, PSC)	Fineness by blaine air permeability	IS 4031 Part 2
183	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC, PSC)	Soundness by Le chatelier methods	IS 4031 Part 3
184	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	10% Fines Value	IS 2386, Part 4
185	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing value	IS 2386 Part 4
186	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation index	IS 2386 Part 1
187	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness index	IS 2386 Part 1
188	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact value	IS 2386 Part 4



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189	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los angles abrasion value (LAA)	IS 2386 Part 4
190	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis / Particle Shape & Size / Shape ratio / Material Finer / Gradation / Grain Size Analysis	IS 2386 Part 1
191	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific gravity	IS 2386 Part 3
192	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water absorption	IS 2386 Part 3
193	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk density & voids	IS 2386 Part 3
194	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Gradation (Sieve analysis 0.015 to 10 mm sieve size)	IS 2386 Part 1
195	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Material finer than 75 micron	IS 2386 Part 1
196	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific gravity	IS 2386 Part 3
197	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water absorption	IS 2386 Part 3
198	MECHANICAL- BUILDINGS MATERIALS	Fly ash bricks	Dimension - Length, Width, Height	IS 13757
199	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength (Normal / Accelerated Cured)	IS 516 (Part 1/Sec 1), IS 10262
200	MECHANICAL- BUILDINGS MATERIALS	Manhole Cover	Load Bearing Test	BS EN 124-1
201	MECHANICAL- BUILDINGS MATERIALS	Paver Block, Interlocking Block, Precast Concrete Blocks	Compressive strength	IS 15658
202	MECHANICAL- BUILDINGS MATERIALS	Paver Block, Interlocking Block, Precast Concrete Blocks	Water Absorption	IS 15658
203	MECHANICAL- BUILDINGS MATERIALS	Pipes for Plumbing & drainage fittings	Dimension	IS 12235 Part 1
204	MECHANICAL- BUILDINGS MATERIALS	Tiles (Ceramic Vitrified Glazed / Un Glazed, Flooring, Wall)	Dimensions & Surface quality	IS 13630 Part 1
205	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Alloy Steel and Stainless Steel	Flaring Test / Drift Expansion Test	ASTM A999/A999M



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206	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Alloy Steel and Stainless Steel	Flattening Test	ASTM A999/A999M
207	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys & Products	Tensile Test (% Elongation)	ASTM B557
208	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys & Products	Tensile Test (% Reduction Area)	ASTM B557
209	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys & Products	Tensile Test (Ultimate Tensile Strength)	ASTM B557
210	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys & Products	Tensile Test (Yield Stress, 0.2 to 1.0% Proof Stress)	ASTM B557
211	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum and Al Alloys Weldments	Tensile Test (Ultimate Tensile Strength, UTS)	AWS D1.2/D1.2M
212	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum and Al Alloys Weldments	Vickers Hardness Test	AWS D1.2/D1.2M
213	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon and Alloy Steel	Flaring Test / Drift Expansion Test	ASTM A450/A450M
214	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon and Alloy Steel	Flattening Test	ASTM A450/A450M
215	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon and Alloy Steel	Bend Test	ASTM E290
216	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel	Proof load Test (Nuts)	ASTM A194/194M
217	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel	Proof Load Test	ASTM A194/194M
218	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Duplex, Austenitic / Ferritic Stainless Steels	Method B Charpy Impact Test (Temp (-) 196 Deg C to Room Temp)	ASTM A923, ASTM A1084
219	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Electroplated coatings of copper,brass, nickel nickel-chromium, hard chromium, lead, zinc, cadmium,silver, gold and tin.	Electroplated coating on Magnetic Material Coating Thickness - Magnetic Method	IS 3203



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220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Externally and Internally Threaded Fasteners, Bolts, screws and studs	Wedge / Full / Machined Tensile Test	ASTM F606/F606M
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets	Proof Load Test	BS EN ISO 3506-1
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets	Wedge / Full Tensile Test	BS EN ISO 3506-1
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets	Wedge / Full / Machined Tensile Test	IS 1367 Part 3 / ISO 898-1
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets, Bolts, screws and studs	Proof Load Test	ASTM F606/F606M
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Externally, Internally Threaded Fasteners, Bolts, screws and studs	Proof Load Test	ASTM A193/A193M
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Externally, Internally Threaded Fasteners, Bolts, screws and studs	Wedge / Full / Machined Tensile Test	ASTM A193/A193M
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Externally, Internally Threaded Fasteners, Bolts, screws and studs	Wedge / Full / Machined Tensile Test	ASTM A320/A320M
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Externally, Internally Threaded Fasteners, Bolts, screws and studs	Wedge / Full / Machined Tensile Test	ASTM A370 / ASME BPVC IIA SA370
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners made of carbon steel and alloy steel Bolts, screws and studs	Tensile Test (% Elongation)	IS 1367 Part 3 / ISO 898-1
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners made of carbon steel and alloy steel Bolts, screws and studs	Tensile Test (% Reduction Area)	IS 1367 Part 3 / ISO 898-1
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners made of carbon steel and alloy steel Bolts, screws and studs	Tensile Test (Yield Stress, 0.2 to 1.0% Proof Stress)	IS 1367 Part 3 / ISO 898-1
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners made of carbon steel and alloy steel Nuts	Proof Load Test (Nuts)	BS EN ISO 898-2
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners, Nuts	Proof Load	BS EN ISO 3506-2



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234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic Alloy Steel, Austenitic Alloy Steel, and Stainless Steel Tubes	Flaring Test / Drift Expansion Test	ASTM A1016/A1016M
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic Alloy Steel, Austenitic Alloy Steel, and Stainless Steel Tubes	Flattening Test	ASTM A1016/A1016M
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Welded Joints and Weld Metal in Steel	Tensile Test (Ultimate Tensile Strength, UTS)	IS 3600 Part 3 / ISO 4136
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Welded Joints and Weld Metal in Steel	Tensile Test (Ultimate Tensile Strength, UTS)	IS 3600 Part 4
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires (TMT Bars)	Re-bend Test	IS 1786
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires (TMT Bars)	Bend Test	IS 1786
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires (TMT Bars)	Tensile Test (% Elongation)	IS 1786
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires (TMT Bars)	Tensile Test (% Reduction Area)	IS 1786
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires (TMT Bars)	Tensile Test (Ultimate Tensile Strength, UTS)	IS 1786
243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires (TMT Bars)	Tensile Test (Yield Stress, 0.2 to 1.0% Proof Stress)	IS 1786
244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron and Steel Articles with Zinc or Zinc-Alloy Coatings	Mass Of Zinc Coating (Single Spot / Triple Spot Method) GSM	ASTM A90/90M
245	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron Castings	Transverse Test	IS 210
246	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & alloys -Aluminum Section, Steel & Structural Steel Articles, Paints, Varnishes, , Enamels, Epoxy, Coating, Plating and Related Products	Coating Thickness by Elcometer	ASTM B499
247	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal material	Tensile Test (Ultimate Tensile Strength, UTS)	JIS Z2241



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248	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal material	Tensile Test (% Elongation)	JIS Z2241
249	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal material	Tensile Test (% Reduction Area)	JIS Z2241
250	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal material	Tensile Test (Yield Stress, 0.2 to 1.0% Proof Stress)	JIS Z2241
251	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Articles	Coating Thickness	ASTM E376
252	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Articles	Mass Of Zinc Coating (Single Spot / Triple Spot Method) GSM	IS 6745
253	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Coated Articles	Uniformity of Zinc Coating	IS 2633
254	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Compression Testing	ASTM E9
255	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness Test- Brinell Hardness (HBW 10/3000)	ASTM E10
256	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness Test- Brinell Hardness (HBW 10/3000)	IS 1500 Part 1 / ISO 6506-1
257	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness Test- Brinell Hardness (HBW 5/750)	ASTM E10
258	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness Test- Brinell Hardness (HBW 5/750)	IS 1500 Part 1 / ISO 6506-1
259	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness Test- Rockwell Hardness Scale A, B, C	ASTM E18
260	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness Test- Rockwell Hardness Scale A, B, C	IS 1586 Part 1 / ISO 6508-1
261	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness Test- Rockwell Superficial Hardness Scale HR15/30/45N, HR15/30/45TW	ASTM E18



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262	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness Test- Rockwell Superficial Hardness Scale HR15/30/45N, HR15/30/45TW	IS 1586 Part 1 / ISO 6508-1
263	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (% Elongation)	ASTM E8/E8M
264	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (% Elongation)	IS 1608 Part 1/ISO 6892 Part 1
265	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (% Reduction Area)	ASTM E8/E8M
266	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (% Reduction Area)	IS 1608 Part 1/ISO 6892 Part 1
267	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Ultimate Tensile Strength, UTS)	ASTM E8/E8M
268	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Yield Stress, 0.2 to 1.0% Proof Stress)	IS 1608 Part 1/ISO 6892 Part 1
269	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Yield Stress, 0.2 to 1.0% Proof Stress)	ASTM E8/E8M
270	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test, HV 0.2/0.5/1	ASTM E384
271	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test, HV 0.2/0.5/1/5/10/30	IS 1501 Part 1 / ISO 6507-1
272	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test, HV 10/20/30	ASTM E92
273	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 1599 / ISO 7438
274	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (Temp (-) 196 Deg C to Room Temp) with 8 & 2 mm Sticker	ASTM E23
275	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (Temp (-) 196 Deg C to Room Temp) with 8 & 2 mm Sticker	IS 1757 Part 1 / ISO 148-1



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276	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Erichsen Cupping Test	BS EN ISO 20482
277	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Ultimate Tensile Strength, UTS)	IS 1608 Part 1/ISO 6892 Part 1
278	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Products	Bend test	IBR Reg 1950
279	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Products	Macro / Micro Examination	IBR Reg 1950
280	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Products	Tensile Test (% Elongation)	IBR Reg 1950
281	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Products	Tensile Test (% Reduction Area)	IBR Reg 1950
282	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Products	Tensile Test (Ultimate Tensile Strength)	IBR Reg 1950
283	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Products	Tensile Test (Yield Stress, 0.2 to 1.0% Proof Stress)	IBR Reg 1950
284	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Products	Fillet Weld Fracture Test, Nick Break Test	IBR Reg 1950
285	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Crushing Test	ASTM A370 / ASME BPVC IIA SA370
286	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Crushing Test	IS 3601
287	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Flaring Test / Drift Expansion Test	ASTM A370 / ASME BPVC IIA SA370
288	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Flattening Test	ASTM A370 / ASME BPVC IIA SA370
289	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Flattening Test	ASTM A530/A530M



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290	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Hardness Test- Brinell Hardness (HBW 10/3000)	ASTM A370 / ASME BPVC IIA SA370
291	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Hardness Test- Brinell Hardness (HBW 5/750)	ASTM A370 / ASME BPVC IIA SA370
292	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Hardness Test- Rockwell Hardness Scale A, B, C	ASTM A370 / ASME BPVC IIA SA370
293	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Hardness Test- Rockwell Superficial Hardness Scale HR15/30/45N, HR15/30/45TW	ASTM A370 / ASME BPVC IIA SA370
294	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Proof Load Test	ASTM A370 / ASME BPVC IIA SA370
295	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Tensile Test (% Elongation)	ASTM A370 / ASME BPVC IIA SA370
296	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Tensile Test (% Reduction Area)	ASTM A370 / ASME BPVC IIA SA370
297	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Tensile Test (Ultimate Tensile Strength, UTS)	ASTM A370 / ASME BPVC IIA SA370
298	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Tensile Test (Yield Stress, 0.2 to 1.0% Proof Stress)	ASTM A370 / ASME BPVC IIA SA370
299	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Vickers Hardness Test, HV 0.2/0.5/1/5/10/30	ASTM A370 / ASME BPVC IIA SA370
300	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Bend Test	ASTM A370 / ASME BPVC IIA SA370
301	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Charpy Impact Test (Temp (-) 196 Deg C to Room Temp) with 8 & 2 mm Sticker	ASTM A370 / ASME BPVC IIA SA370
302	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials and Steel Products	Erichsen Cupping Test	ASTM A370 / ASME BPVC IIA SA370
303	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials- Sheet and Strip	Erichsen Cupping Test	IS 10175 / ISO 20482



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304	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials- Tube	Flaring Test / Drift Expansion Test	BS EN ISO 8493
305	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials- Tube	Flattening Test	IS 2328 / ISO 8492
306	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Pipe & Tubes	Flaring Test / Drift Expansion Test	IS 2335 / ISO 8493
307	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Pipe & Tubes	Bend Test	IS 2329 / ISO 8491
308	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals	Izod Impact Test (Temp (-) 196 Deg C to Room Temp)	BS 131-1
309	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals	Izod Impact Test (Temp (-) 196 Deg C to Room Temp)	IS 1598
310	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Coupler (Mechanical splices of steel reinforcing bars), TMT Coupler	Slip Test	IS 16172
311	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Coupler (Mechanical splices of steel reinforcing bars), TMT Coupler	Tensile Strength (UTS / Pull Out)	IS 16172
312	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Jominy Hardenability Test by End Quench Method	ASTM A255
313	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Jominy Hardenability Test by End Quench Method	IS 3848
314	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Threaded Steel Fasteners	Proof Load Test (Nuts)	IS 1367 Part 6 / ISO 898-2
315	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Threaded Steel Fasteners	Proof Load Test	IS 1367 Part 3 / ISO 898-1
316	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens (Ferrous & Non Ferrous Welded Test Specimens)	Tensile Test (Ultimate Tensile Strength, UTS)	IS 2825
317	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints	Charpy Impact Test (Temp (-) 196 Deg C to Room Temp) with 8 & 2 mm Sticker	AWS B4.0



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318	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints	Tensile Test (% Elongation)	AWS B4.0
319	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints	Tensile Test (% Reduction Area)	AWS B4.0
320	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints	Tensile Test (Ultimate Tensile Strength, UTS)	AWS B4.0
321	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints	Tensile Test (Yield Stress, 0.2 to 1.0% Proof Stress)	AWS B4.0
322	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Aluminium and its alloys	Bend test	AWS D1.2/D1.2M
323	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Aluminium and its alloys	Bend Test	BS EN ISO 15614-2
324	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Aluminium and its alloys	Fillet Weld Fracture Test, Nick Break Test	BS EN ISO 15614-2
325	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Aluminium and its alloys	Fillet Weld Fracture Test, Nick Break Test	AWS D1.2/D1.2M
326	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Aluminium and its alloys	Tensile Test (Ultimate Tensile Strength, UTS)	BS EN ISO 15614-2
327	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Carbon and Alloy Steel	Tensile Test (Ultimate Tensile Strength, UTS)	API 1104
328	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Ferrous materials, alloys & products	Bend Test	API 1104
329	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Ferrous materials, alloys & products	Bend test	AWS D1.1/D1.1M
330	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Ferrous materials, alloys & products	Bend Test	BS EN ISO 9606-1
331	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Ferrous materials, alloys & products	Bend Test	IS 3600 Part 5 / ISO 5173



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332	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Ferrous materials, alloys & products	Bend Test	IS 3600 Part 7
333	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Ferrous materials, alloys & products	Macro/Micro Examination	API 1104
334	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Ferrous materials, alloys & products	Nick Break Test	AWS D1.1/D1.1M
335	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Ferrous materials, alloys & products	Fillet Weld Fracture Test, Nick Break Test	API 1104
336	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Ferrous materials, alloys & products	Fillet Weld Fracture Test, Nick Break Test	AWS D1.1/D1.1M
337	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Ferrous materials, alloys & products	Fillet Weld Fracture Test, Nick Break Test	BS EN ISO 9606-1
338	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Bend Test	AWS B4.0
339	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Bend Test	ASME BPVC Section IX
340	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Macro / Micro Examination	IS 2825
341	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Mock-Up (Pull Out) Test	ASME BPVC Section IX
342	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Nick Break Test	IS 2825
343	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Pull Out Test	BS EN ISO 15614-8
344	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Push Out Test	BS EN ISO 15614-8
345	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Fillet Weld Fracture Test, Nick Break Test	ASME BPVC Section IX



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346	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Fillet Weld Fracture Test, Nick Break Test	BS EN ISO 9017
347	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Fillet Weld Fracture Test, Nick Break Test	AWS B4.0
348	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Fillet Weld Fracture Test, Nick Break Test	IS 3600 Part 8
349	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Charpy Impact Test (Temp (-) 196 Deg C to Room Temp) with 8 & 2 mm Sticker	ASME BPVC Section IX
350	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Charpy Impact Test (Temp (-) 196 Deg C to Room Temp) with 8 & 2 mm Sticker	IS 3600 Part 2 / ISO 9016
351	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Tensile Test (Ultimate Tensile Strength, UTS)	ASME BPVC Section IX
352	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and Welded joints in Metallic Materials	Vickers Hardness Test	ASME BPVC Section IX
353	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in metallic materials.	Peel & Chisel Test	BS EN ISO 10447
354	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in metallic materials.	Tensile Test (Ultimate Tensile Strength, UTS)	BS EN ISO 5178
355	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in metallic materials.	Vickers Hardness Test	BS EN ISO 9015-1
356	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in metallic materials.	Vickers Hardness Test	BS EN ISO 9015-2
357	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Steel	Charpy Impact Test (Temp (-) 196 Deg C to Room Temp) with 8 & 2 mm Sticker	AWS D1.1/D1.1M
358	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Steel	Tensile Test (Ultimate Tensile Strength, UTS)	AWS D1.1/D1.1M
359	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded joints in Steel	Vickers Hardness Test	AWS D1.1/D1.1M



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360	MECHANICAL-METALLOGRAPHY TEST	Arc and Gas welding of steels and arc welding of nickel and nickel alloys	Macro/Micro Examination	BS EN ISO 15614-1
361	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Test 'A'	ASTM A262
362	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Test 'E'	ASTM A262
363	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Test Monypenny Strauss Test	IS 10461 Part 2
364	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Test 'B'	ASTM A262
365	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Test 'C'	ASTM A262
366	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Test 'F'	ASTM A262
367	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	IGC, Huey Test	IS 10461 Part 1
368	MECHANICAL-METALLOGRAPHY TEST	Bearing Steel	Carbide Structure	SEP 1520
369	MECHANICAL-METALLOGRAPHY TEST	Coated Products	Coating Thickness by Microscopic Method	ASTM B487
370	MECHANICAL-METALLOGRAPHY TEST	Copper & Its Alloys	Average Grain Size by Comparison Method	BS EN ISO 2624
371	MECHANICAL-METALLOGRAPHY TEST	Duplex, Austenitic / Ferritic Stainless Steels	Method A (Sodium Hydroxide Etch Test)	ASTM A923, ASTM A1084
372	MECHANICAL-METALLOGRAPHY TEST	Duplex, Austenitic / Ferritic Stainless Steels	Microstructure Examination	BS EN ISO 17781
373	MECHANICAL-METALLOGRAPHY TEST	Duplex, Austenitic / Ferritic Stainless Steels	Method C (Ferric chloride corrosion test)	ASTM A923, ASTM A1084
374	MECHANICAL-METALLOGRAPHY TEST	Iron Castings	Microstructure Examination	ASTM A247
375	MECHANICAL-METALLOGRAPHY TEST	Iron castings	Microstructure Examination	ASTM E2567
376	MECHANICAL-METALLOGRAPHY TEST	Iron castings	Microstructure Examination	BS EN ISO 945-1
377	MECHANICAL-METALLOGRAPHY TEST	Iron castings	Microstructure Examination	IS 7754
378	MECHANICAL-METALLOGRAPHY TEST	Metallic and Non-Metallic Materials	Macro/Micro Examination	BS EN ISO 9606-1



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379	MECHANICAL-METALLOGRAPHY TEST	Metallic and Non-Metallic Materials	Microstructure Examination	ASM Handbook Vol. 9
380	MECHANICAL-METALLOGRAPHY TEST	Metallic and Non-Metallic Materials	Microstructure Examination, Degree of Banding	ASTM E1268
381	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Average Grain Size by Comparison Method	ASTM E112
382	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials and Nonmetallic materials	Volume Fraction	ASTM E562, ASTM E1245
383	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials and Products	Macro/Micro Examination	ASTM E3, ASTM E1558, ASTM E407, ASTM E1351, ASTM A800
384	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials and Products	Macro/Micro Examination	IS 7739 Part 1, 2, 3, 4 & 5
385	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials and Products	Macro/Micro Examination	UNE CEN ISO/TR 16060
386	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Macro Examination	ASTM E340
387	MECHANICAL-METALLOGRAPHY TEST	Rolled or Forged steel products	Non Metallic Inclusion Rating by Comparison Method	IS 4163 / ISO 4967
388	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method C (Critical Pitting Temperature Test)	ASTM G48
389	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method D (Critical Crevice Temperature Test)	ASTM G48
390	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method E (Critical Pitting Temperature Test)	ASTM G48
391	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method F (Critical Crevice Temperature Test)	ASTM G48
392	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method A (Ferric chloride pitting test)	ASTM G48
393	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method B (Ferric chloride cervice Test)	ASTM G48
394	MECHANICAL-METALLOGRAPHY TEST	Stainless steels Austenitic and ferritic-austenitic (duplex) stainless steels	IGC Test (Method A, B & C)	BS EN ISO 3651-2
395	MECHANICAL-METALLOGRAPHY TEST	Stainless steels Austenitic and ferritic-austenitic (duplex) stainless steels	IGC Test, Huey test	BS EN ISO 3651-1
396	MECHANICAL-METALLOGRAPHY TEST	Steel	Average Grain Size by Comparison Method	IS 4748 / ISO 643
397	MECHANICAL-METALLOGRAPHY TEST	Steel	Non Metallic Inclusion Rating by Comparison Method	ASTM E45



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398	MECHANICAL-METALLOGRAPHY TEST	Steel	Non Metallic Inclusion Rating by Comparison Method	SEP 1572
399	MECHANICAL-METALLOGRAPHY TEST	Steel	Case depth measurement by micro hardness method	IS 6416
400	MECHANICAL-METALLOGRAPHY TEST	Steel	Case depth measurement by Microscopic Method	BS EN ISO 18203
401	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburisation	IS 6396
402	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, Billets, Blooms and Forgings	Macro Examination	ASTM E381
403	MECHANICAL-METALLOGRAPHY TEST	Steel Specimens	Depth of Decarburisation	ASTM E1077
404	MECHANICAL-METALLOGRAPHY TEST	Welds and Welded joints in Aluminum and Al Alloys	Macro/Micro Examination	AWS D1.2/D1.2M
405	MECHANICAL-METALLOGRAPHY TEST	Welds and Welded joints in Aluminum and Al Alloys	Macro/Micro Examination	IS 7273
406	MECHANICAL-METALLOGRAPHY TEST	Welds and welded joints in Ferrous materials, alloys & products	Macro & Micro Examination Test	IS 3600 Part 9 / ISO 17639
407	MECHANICAL-METALLOGRAPHY TEST	Welds and welded joints in Ferrous materials, alloys & products	Macro Examination	IS 7310 Part 1 / ISO 9606-1
408	MECHANICAL-METALLOGRAPHY TEST	Welds and welded joints in Ferrous materials, alloys & products	Macro Examination	IS 7318 Part 1
409	MECHANICAL-METALLOGRAPHY TEST	Welds and welded joints in Ferrous materials, alloys & products	Macro/Micro Examination	AWS D1.1/D1.1M
410	MECHANICAL-METALLOGRAPHY TEST	Welds and Welded joints in Metallic Materials	Macro Examination	BS EN ISO 15614-8
411	MECHANICAL-METALLOGRAPHY TEST	Welds and Welded joints in Metallic Materials	Macro Examination	IS 7307 Part 1
412	MECHANICAL-METALLOGRAPHY TEST	Welds and Welded joints in Metallic Materials	Macro, Micro, Visual Examination, Weld Penetration, Weld Measurement, Porosity	ASME BPVC Section IX
413	MECHANICAL-METALLOGRAPHY TEST	Welds and Welded joints in Metallic Materials	Macro, Micro, Visual Examination, Weld Penetration, Weld Measurement, Porosity	BS EN ISO 6520-1
414	MECHANICAL-METALLOGRAPHY TEST	Welds and Welded joints in Metallic Materials	Macroscopic & Microscopic examination of Welds	BS EN ISO 5817
415	MECHANICAL-METALLOGRAPHY TEST	Wrought Aluminium and Aluminium Alloy Products	Macro Examination	IS 12573



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416	MECHANICAL- METALLOGRAPHY TEST	Wrought Steel Products	Macro Examination	IS 11371
417	MECHANICAL- METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium-Bearing Alloys	IGC Method A (Ferric Sulfate - Sulfuric acid test)	ASTM G28
418	MECHANICAL- METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium-Bearing Alloys	IGC Method B (Mixed acid - Oxidizing salt test)	ASTM G28
419	MECHANICAL- SOIL AND ROCK	Rock	Compressive Strength (UCS)	IS 9143
420	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (DST) Angle of internal friction	IS 2720 Part 13
421	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (DST) Cohesion	IS 2720 Part 13
422	MECHANICAL- SOIL AND ROCK	Soil	Gradation (Sieve analysis 0.015 to 125 mm sieve size)	IS 2720 Part 4
423	MECHANICAL- SOIL AND ROCK	Soil	Light compaction - MDD	IS 2720 Part 7
424	MECHANICAL- SOIL AND ROCK	Soil	Light compaction- OMC	IS 2720 Part 7
425	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 Part 6
426	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity	IS 2720 Part 3 sec-1
427	MECHANICAL- SOIL AND ROCK	Soil & Rock Field Test	Electrical Resistivity by Wenner's Four Electrode method (ERT)	IS 3043
428	MECHANICAL- SOIL AND ROCK	Soil, Clays	Free Swell Index (FSI)	IS 2720 Part 40
429	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM	Heavy compaction, MDD	IS 2720 Part 8
430	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM	Heavy compaction-OMC	IS 2720 Part 8
431	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM	Water content, Moisture Content %	IS 2720 Part 2
432	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM, Bentonite	Liquid Limit	IS 2720 Part 5
433	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM, Bentonite	Plastic Limit	IS 2720 Part 5



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434	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM, WBM	California Bearing Ratio (CBR)	IS 2720 Part 16
435	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Carbonation depth	BS 1881-part-201



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Site Testing				
1	MECHANICAL- SOIL AND ROCK	Soil & Rock Field Test	Electrical Resistivity by Wenner's Four Electrode method (ERT)	IS 3043
2	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Rebound hammer test	IS:13311 (Part-2)
3	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Carbonation depth	BS 1881-part-201
4	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Ultrasonic pulse velocity test	IS: 516 (part-5/Sec 1)
5	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced concrete	Half Cell Potential test	ASTM C 876-19
6	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Crack Depth measurement by UPV Machine	IS 516 P 5 SEC 1