National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SUNBEAM LIGHTWEIGHTING SOLUTIONS PVT LTD (TESTING RESEARCH & DEVELOPMENT CENTRE), 38/6 KM STONE, DELHI JAIPUR HIGHWAY, GURGAON, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride Ion Content	IS 6925
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 (OPC & PPC)	Alumina (as Al2O3)	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement (OPC & PPC)	Calcium Oxide (as CaO)	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement (OPC & PPC)	Chlorides	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement (OPC & PPC)	Insoluble Residue	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement (OPC & PPC)	IronOxide (Fe2O3)	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement (OPC & PPC)	Loss on Ignition	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement (OPC & PPC)	Magnesia (as MgO)	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement (OPC & PPC)	Silica (as SiO2)	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement (OPC & PPC)	Sulphuric Anhydride (as SO3)	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Cement Concrete	Chloride	IS 14959 (Part 2)
16	CHEMICAL- BUILDING MATERIAL	Cement Concrete	Sulphates	IS 4032
17	CHEMICAL- BUILDING MATERIAL	Fly Ash	Alumina (As Al2O3)	IS 1727
18	CHEMICAL- BUILDING MATERIAL	Fly Ash	Iron Oxide (As Fe2O3)	IS 1727

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19	CHEMICAL- BUILDING MATERIAL	Fly Ash	Loss on Ignition	IS 1727
20	CHEMICAL- BUILDING MATERIAL	Fly Ash	Magnesium Oxide (As MgO)	IS 1727
21	CHEMICAL- BUILDING MATERIAL	Fly Ash	Silica (SiO2)	IS 1727
22	CHEMICAL- BUILDING MATERIAL	Fly Ash	Sulphuric Anhydride (As SO3)	IS 1727
23	CHEMICAL- BUILDING MATERIAL	Sand, Coarse and Fine Aggregate	Alkali Reactivity (Silica Released)	IS 2386 (Part 7)
24	CHEMICAL- BUILDING MATERIAL	Sand,Coarse and Fine Aggregate	Alakali Reactivity (Reduction in Alkalinity)	IS 2386 (Part 7)
25	CHEMICAL- BUILDING MATERIAL	Soil	Chloride	BS 1377 Part -3
26	CHEMICAL- BUILDING MATERIAL	Soil	Organic Matter	IS 2720 Part 22
27	CHEMICAL- BUILDING MATERIAL	Soil	pH	IS 2720 (Part 26)
28	CHEMICAL- BUILDING MATERIAL	Soil	Sulphate	IS 2720 (Part 27)
29	CHEMICAL- BUILDING MATERIAL	Tiles	Resistance to Acid (Glazed and Unglazed)	IS 13630 (Part 8)
30	CHEMICAL- BUILDING MATERIAL	Tiles	Resistance to Alkali (Glazed and Unglazed)	IS 13630 (Part 7)
31	CHEMICAL- CORROSION TESTS	Metallic coatings	Salt Spray Test	ASTM B117
32	CHEMICAL- CORROSION TESTS	Metallic coatings	Salt Spray Test	IS 9844
33	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coating	Zinc Coating	IS 6745
34	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Calcium	ASTM E1251 a
35	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E1251 a
36	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	IS 13319

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37	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	IS 504 (Part -8)
38	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1251 a
39	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS 11123
40	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS 504 (Part-3)
41	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E1251 a
42	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	IS 504(Part-2)
43	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E1251 a
44	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	IS 12074
45	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E1251 a
46	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	IS 504(Part-6)
47	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E1251 a
48	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS 12046
49	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS 504(Part-5)
50	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E1251 a
51	CHEMICAL- METALS & ALLOYS	Aluminium & Its alloys	Nickel	IS 12122
52	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	IS 504(Part-7)
53	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Phosphorus	ASTM E1251 a
54	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E1251 a
55	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 504(Part-1)

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56	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Strontium	ASTM E1251 a
57	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E1251 a
58	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	TIn	IS 504(Part-9)
59	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E1251 a
60	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	IS 504 (Part 11)
61	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	ASTM E1251 a
62	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E1251 a
63	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 504(Part-4)
64	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 9958
65	CHEMICAL- METALS & ALLOYS	BRASS	Copper	IS 3685
66	CHEMICAL- METALS & ALLOYS	BRASS	Iron	IS:3685
67	CHEMICAL- METALS & ALLOYS	BRASS	Lead	IS:3685
68	CHEMICAL- METALS & ALLOYS	BRASS	Manganese	IS:3685
69	CHEMICAL- METALS & ALLOYS	BRASS	Nickel	IS:3685
70	CHEMICAL- METALS & ALLOYS	BRASS	Silicon	IS:3685
71	CHEMICAL- METALS & ALLOYS	BRASS	Tin	IS:3685
72	CHEMICAL- METALS & ALLOYS	BRASS	Zinc	IS:3685
73	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Aluminium	BS EN 15079
74	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Antimony	BS EN 15079

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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
75	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Arsenic	BS EN 15079
76	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Berryllium	BS EN 15079
77	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Bismuth	BS EN 15079
78	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Cadmium	BS EN 15079
79	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Chromium	BS EN 15079
80	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Iron	BS EN 15079
81	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Lead	BS EN 15079
82	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Magnesium	BS EN 15079
83	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Manganese	BS EN 15079
84	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Nickel	BS EN 15079
85	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Phosphorus	BS EN 15079
86	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Silicon	BS EN 15079
87	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Silver	BS EN 15079
88	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Sulphur	BS EN 15079
89	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Tin	BS EN 15079
90	CHEMICAL- METALS & ALLOYS	Brass & Bronze	Zinc	BS EN 15079
91	CHEMICAL- METALS & ALLOYS	BRONZE	Aluminium	IS 4027 (Part 9)
92	CHEMICAL- METALS & ALLOYS	BRONZE	Copper	IS 4027 Part1
93	CHEMICAL- METALS & ALLOYS	BRONZE	Iron	IS 4027 (Part 8)

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94	CHEMICAL- METALS & ALLOYS	BRONZE	Lead	IS 4027 (Part 1)
95	CHEMICAL- METALS & ALLOYS	BRONZE	Managanese	IS 4027 (Part 2)
96	CHEMICAL- METALS & ALLOYS	BRONZE	Nickel	IS 4027 (Part 4)
97	CHEMICAL- METALS & ALLOYS	BRONZE	Phosphorus	IS 4027 (Part 3)
98	CHEMICAL- METALS & ALLOYS	BRONZE	Silicon	IS 4027 (Part 10)
99	CHEMICAL- METALS & ALLOYS	BRONZE	Tin	IS 4027 (Part 5)
100	CHEMICAL- METALS & ALLOYS	BRONZE	Zinc	IS 4027 (Part 6)
101	CHEMICAL- METALS & ALLOYS	Carbon Steel	Aluminium	ASTM E415
102	CHEMICAL- METALS & ALLOYS	Carbon Steel	Arsenic	ASTM E415
103	CHEMICAL- METALS & ALLOYS	Carbon Steel	Arsenic	IS 228 (Part 13)
104	CHEMICAL- METALS & ALLOYS	Carbon Steel	Boron	ASTM E415
105	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon	ASTM E415
106	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon	IS 228 (Part 1)
107	CHEMICAL- METALS & ALLOYS	Carbon Steel	Chromium	ASTM E415
108	CHEMICAL- METALS & ALLOYS	Carbon Steel	Chromium	IS 228 (Part 6)
109	CHEMICAL- METALS & ALLOYS	Carbon Steel	Cobalt	ASTM E415
110	CHEMICAL- METALS & ALLOYS	Carbon Steel	Copper	ASTM E415
111	CHEMICAL- METALS & ALLOYS	Carbon Steel	Copper	IS 228 (Part 15)
112	CHEMICAL- METALS & ALLOYS	Carbon Steel	Lead	IS 8811

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113	CHEMICAL- METALS & ALLOYS	Carbon steel	Manganese	ASTM E415:
114	CHEMICAL- METALS & ALLOYS	Carbon Steel	Manganese	IS 228 (Part 2)
115	CHEMICAL- METALS & ALLOYS	Carbon Steel	Molybdenum	ASTM E415
116	CHEMICAL- METALS & ALLOYS	Carbon Steel	Molybdenum	IS 228 (Part 10)
117	CHEMICAL- METALS & ALLOYS	Carbon Steel	Neobium	ASTM E415
118	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nickel	ASTM E415
119	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nickel	IS 228 (Part 5)
120	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nitrogen	ASTM E415
121	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nitrogen	IS 228 (Part 19)
122	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorus	ASTM E415
123	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorus	IS 228 (Part 3)
124	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon	ASTM E415
125	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon	IS 228 (Part 8)
126	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulphur	ASTM E415
127	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulphur	IS 228 (Part 9)
128	CHEMICAL- METALS & ALLOYS	Carbon Steel	Tin	ASTM E415
129	CHEMICAL- METALS & ALLOYS	Carbon Steel	Titanium	ASTM E415
130	CHEMICAL- METALS & ALLOYS	Carbon Steel	Tungsten	IS 8811
131	CHEMICAL- METALS & ALLOYS	Carbon Steel	Vanadium	ASTM E415

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
132	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	ASTM E1999
133	CHEMICAL- METALS & ALLOYS	Cast Iron	Arsenic	ASTM E1999
134	CHEMICAL- METALS & ALLOYS	Cast Iron	Boron	ASTM E1999
135	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
136	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 12308 (Part 11)
137	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 12308 (Part 8)
138	CHEMICAL- METALS & ALLOYS	Cast Iron	Cobalt	ASTM E1999
139	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
140	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 12308 (Part 12)
141	CHEMICAL- METALS & ALLOYS	Cast Iron	Lead	ASTM E1999
142	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	IS 12308 (Part 13)
143	CHEMICAL- METALS & ALLOYS	Cast Iron	Managanese	IS 12308 (Part 10)
144	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
145	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
146	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS 12308 Part 9
147	CHEMICAL- METALS & ALLOYS	Cast Iron	Neobium	ASTM E1999
148	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
149	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 12308 (Part 7)
150	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999

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151	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 12308 (Part 5)
152	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
153	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 12308 Part 6
154	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
155	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 12308 (Part 2)
156	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E1999
157	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E1999
158	CHEMICAL- METALS & ALLOYS	Cast Iron	Tungsten	ASTM E1999
159	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E1999
160	CHEMICAL- METALS & ALLOYS	COPPER	Bismuth	IS 440
161	CHEMICAL- METALS & ALLOYS	COPPER	Copper	IS:440
162	CHEMICAL- METALS & ALLOYS	COPPER	Iron	IS:440
163	CHEMICAL- METALS & ALLOYS	COPPER	Lead	IS:440
164	CHEMICAL- METALS & ALLOYS	COPPER	Nickel	IS:440
165	CHEMICAL- METALS & ALLOYS	COPPER	Tin	IS:440
166	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	IS 11124
167	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	IS 9958
168	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Lead	IS 12074
169	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Manganese	IS 12046

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170	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Nickel	IS 12122
171	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Silver	IS 4667 (Part 1)
172	CHEMICAL- METALS & ALLOYS	Ferro Chromium	Chromium	IS 1559 (Section-II)
173	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Manganese	IS 1559 (Section III)
174	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Silicon	IS 1559 (Section-1)
175	CHEMICAL- METALS & ALLOYS	Ferro Vanadium	Vanadium	IS 1559 (Section-VIII)
176	CHEMICAL- METALS & ALLOYS	Pure Copper	Aluminium	BS EN 15079
177	CHEMICAL- METALS & ALLOYS	Pure Copper	Antimony	BS EN 15079
178	CHEMICAL- METALS & ALLOYS	Pure Copper	Arsenic	BS EN 15079
179	CHEMICAL- METALS & ALLOYS	Pure Copper	Berryllium	BS EN 15079
180	CHEMICAL- METALS & ALLOYS	Pure Copper	Bismuth	BS EN 15079
181	CHEMICAL- METALS & ALLOYS	Pure Copper	Cadmium	BS EN 15079
182	CHEMICAL- METALS & ALLOYS	Pure Copper	Chromium	BS EN 15079
183	CHEMICAL- METALS & ALLOYS	Pure Copper	Iron	BS EN 15079
184	CHEMICAL- METALS & ALLOYS	Pure Copper	Lead	BS EN 15079
185	CHEMICAL- METALS & ALLOYS	Pure Copper	Magnesium	BS EN 15079
186	CHEMICAL- METALS & ALLOYS	Pure Copper	Manganese	BS EN 15079
187	CHEMICAL- METALS & ALLOYS	Pure Copper	Nickel	BS EN 15079
188	CHEMICAL- METALS & ALLOYS	Pure Copper	Phosphorus	BS EN 15079

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189	CHEMICAL- METALS & ALLOYS	Pure Copper	Silicon	BS EN 15079
190	CHEMICAL- METALS & ALLOYS	Pure Copper	Silver	BS EN 15079
191	CHEMICAL- METALS & ALLOYS	Pure Copper	Sulphur	BS EN 15079
192	CHEMICAL- METALS & ALLOYS	Pure Copper	Tin	BS EN 15079
193	CHEMICAL- METALS & ALLOYS	Pure Copper	Zinc	BS EN 15079
194	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	IS 9879
195	CHEMICAL- METALS & ALLOYS	Stainless Steel	Arsenic	IS 9879
196	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	IS 9879
197	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
198	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 Part 1
199	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
200	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 Part 6
201	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	IS 9879
202	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
203	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 228 Part 15
204	CHEMICAL- METALS & ALLOYS	Stainless Steel	Lead	IS 9879
205	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
206	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 Part 2
207	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086

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208	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 228 (Part 10)
209	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 228 (Part 7)
210	CHEMICAL- METALS & ALLOYS	Stainless Steel	Neobium	IS 9879
211	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 Part 5
212	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
213	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	IS 228 Part 19
214	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	IS 9879
215	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
216	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 228 Part 3
217	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
218	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 Part 8
219	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
220	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 228 Part 9
221	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tin	IS 9879
222	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	IS 9879
223	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	IS 9879
224	CHEMICAL- METALS & ALLOYS	Tin & tin alloys	Zinc	IS 8097
225	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Antimony	IS 998 (Part 1)
226	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Arsenic	IS 8097

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227	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Bismuth	IS 998 (Part 3)
228	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Cadmium	IS 999
229	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Copper	IS 11123
230	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Iron	IS 998 (Part 2)
231	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Lead	IS 12074
232	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Lead	IS 999
233	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Tin	IS 998 (Part 1)
234	CHEMICAL- METALS & ALLOYS	Tool Steeel	Tungsten	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
235	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	IS 228 (Part1)
236	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
237	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	IS 228 (Part 6)
238	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
239	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
240	CHEMICAL- METALS & ALLOYS	Tool Steel	Copper	IS 228 (Part 15)
241	CHEMICAL- METALS & ALLOYS	Tool Steel	Copper	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
242	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	IS 228 (Part 2)
243	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
244	CHEMICAL- METALS & ALLOYS	Tool steel	Molybdenum	IS 228 (Part 7)
245	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019

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246	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	IS 228 (Part 5)
247	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
248	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	IS 228 (Part 3)
249	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
250	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	IS 228 (Part 8)
251	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
252	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	IS 228 (Part 9)
253	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
254	CHEMICAL- METALS & ALLOYS	Tool Steel	Tin	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
255	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	SOP/SAPL/CHEM/11, Issue No-2, Issue date 20/10/2019
256	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Aluminium	ISO 3815-1
257	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Cadmium	ASTM E536
258	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Cadmium	ISO 3815-1
259	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Copper	ASTM E536
260	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Copper	ISO 3815-1
261	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Iron	ASTM E536
262	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Iron	ISO 3815-1
263	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Lead	ASTM E536
264	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Lead	ISO 3815-1

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265	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Magnesium	ASTM E536
266	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Magnesium	ISO 3815-1
267	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Nickel	ISO 3815-1
268	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Tin	ISO 3815-1
269	CHEMICAL- WATER	Construction Water	Acidity (Volume of 0.02N NaOH required to neutralize 100ml sample using phenopthalein)	IS 3025 (Part 22)
270	CHEMICAL- WATER	Construction Water	Alkalinity(Volume of 0.02N H2So4 reuired)	IS 3025 (Part 23)
271	CHEMICAL- WATER	Construction Water	Chloride (As Cl)	IS 3025 (Part 32)
272	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part 18)
273	CHEMICAL- WATER	Construction Water	Organic Matter	IS 3025 (Part 18)
274	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part 11)
275	CHEMICAL- WATER	Construction Water	Sulphates	IS 3025 (Part 24)
276	CHEMICAL- WATER	Construction Water	Suspended Matter	IS 3025 (Part 17)
277	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 (Part40)
278	CHEMICAL- WATER	Drinking Water	Chloride	Is 3025 (Part 32)
279	CHEMICAL- WATER	Drinking Water	Copper	IS 3025 (Part 42)
280	CHEMICAL- WATER	Drinking Water	Fluoride	IS 3025 (Part 60)
281	CHEMICAL- WATER	Drinking Water	Magnesium	IS 3025 (Part 46)
282	CHEMICAL- WATER	Drinking Water	Manganese	IS 3025 (Part59)
283	CHEMICAL- WATER	Drinking Water	pH Value	IS 3025 (Part 11)
284	CHEMICAL- WATER	Drinking Water	Residual Chlorine	IS 3025 (Part 26)
285	CHEMICAL- WATER	Drinking Water	Sodium	IS 3025 (Part 45)
286	CHEMICAL- WATER	Drinking Water	Sulphates (As SO4)	IS 3025 (Part 24)
287	CHEMICAL- WATER	Drinking Water	Total Dissolved Solid	IS 3025 (Part 16)
288	CHEMICAL- WATER	Drinking Water	Total Hardness (As CaCo3)	IS 3025 (Part 21)
289	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
290	CHEMICAL- WATER	Drinking Water	Zinc	IS 3025 (Part 49)

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291	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility at 27°C	IS 1208
292	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Matter Soluble in Carbon Disulphide % by weight	IS 1216
293	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration at 25°C (5 second in 1/10mm)	IS 1203
294	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening point °C	IS 1205
295	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity at 27°C	IS 1202
296	MECHANICAL- BUILDINGS MATERIALS	Bitumenous mix	Binder Content	IRC SP-11
297	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 Part 1
298	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Height)	IS 1077
299	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Length)	IS 1077
300	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Width)	IS 1077
301	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part 3)
302	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2)
303	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS:4031 (Part 6)
304	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS:4031 (Part 4)
305	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS:4031 (Part 5)
306	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness (Blaine's Air permeability)	IS:4031 (Part 2)
307	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS:4031 (Part 5)
308	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Lechatlier expansion	IS:4031 (Part 3)
309	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness (Autoclave)	IS:4031 (Part 3)

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310	MECHANICAL- BUILDINGS MATERIALS	Cement Flooring & Cement Chequered Tile	Flexural Strength	IS 1237
311	MECHANICAL- BUILDINGS MATERIALS	Cement Flooring & Cement Chequered Tile	Flexural Strength	IS 13801
312	MECHANICAL- BUILDINGS MATERIALS	Cement Flooring & Cement Chequered Tile	Resistance to Wear	IS 1237
313	MECHANICAL- BUILDINGS MATERIALS	Cement Flooring & Cement Chequered Tile	Resistance to wear	IS 13801
314	MECHANICAL- BUILDINGS MATERIALS	Cement Flooring & Cement Chequered Tile	Water Absorption	IS 1237
315	MECHANICAL- BUILDINGS MATERIALS	Cement Flooring & Cement Chequered Tile	Water Absorption	IS 13801
316	MECHANICAL- BUILDINGS MATERIALS	Cencrete	Flexural Strength	IS 516
317	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value	IS:2386 (Part 4)
318	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS:2386 (Part 5)
319	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS:2386 (Part 4)
320	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS:2386 (Part 1)
321	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS:2386 (Part 1)
322	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS:2386 (Part 4)
323	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Materials Finer than 75 Micron	IS:2386 (Part 1)
324	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS:2386 (Part 1)
325	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness	IS:2386 (Part 5)
326	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS:2386 (Part 3)
327	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Ten Percent Fine Value	IS:2386 (Part 4)
328	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS:2386 (Part 3)

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329	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength (By Accelerated curing)	IS 9103
330	MECHANICAL- BUILDINGS MATERIALS	Concrete	Setting Time	IS 1199 (Part-7)
331	MECHANICAL- BUILDINGS MATERIALS	Concrete	Workability	IS 1199 (Part-2)
332	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS:2386 (Part 3)
333	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Materials Finer than 75 Micron	IS:2386 (Part 1)
334	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS:2386 (Part 1)
335	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness	IS:2386 (Part 5)
336	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS:2386 (Part 3)
337	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS:2386 (Part 3)
338	MECHANICAL- BUILDINGS MATERIALS	Water Proofing Compound	Compressive Strength	IS 2645
339	MECHANICAL- BUILDINGS MATERIALS	Water Proofing Compound	Setting Time	IS 2645
340	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	0.2%Proof Stress	IS 1608 (Part 1)
341	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Deformation & Surface Characteristics	IS 1786
342	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Elongation%	IS: 1608 (Part 1)
343	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Mass Per Meter	IS:1786
344	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Tensile Strength	IS 1608 (Part 1)
345	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Yield Stress	IS:1608 (Part 1)

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346	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Alloy (Ferrous / Non Ferrous)	0.2%Proof Stress	ASTM E-8/E-8M-21, IS:1608 (Part 1)
347	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Alloy (Ferrous / Non Ferrous)	Elongation%	ASTM E-8/E-8M-21 & IS:1608 (Part 1)
348	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Alloy (Ferrous / Non Ferrous)	Reduction Area%	ASTM E-8/E-8M-21 & IS:1608 (Part 1)
349	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Alloy (Ferrous / Non Ferrous)	Tensile Strength	ASTM E-8/E-8M-21 & IS:1608 (Part 1)
350	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Alloy (Ferrous / Non Ferrous)	Yield Stress	ASTM E-8/E-8M-21 & IS:1608 (Part 1)
351	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Inclusion Rating	ASTM E-45 (Method-A)
352	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Brinell Hardness (Load 187.5 Kgf / Dia 2.5 mm)	ASTM E10-18 & IS:1500 (Part 1)
353	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Brinell Hardness (Load 62.5 Kgf / Dia 2.5 mm)	ASTM E10-18 & IS:1500 (Part 1)
354	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Case Depth	IS:6416 (Microscopic & Hardness Survey)
355	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Grain Size	ASTM E-112
356	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Microstructure	ASM Handbook Vol-7, 9
357	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Rockwell Hardness (B scale)	ASTM E18:19 & IS:1586 (Part 1)
358	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Rockwell Hardness (B scale)	ASTM E-18-20 IS:1586 (Part 1)
359	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Rockwell Hardness (C scale)	ASTM E-18:19 & IS:1586 (Part 1)

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360	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Rockwell Hardness (C scale)	ASTM E-18-20, IS:1586 (Part 1)
361	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Vicker Hardness	ASTM E-384:2017 & IS:1501 (Part 1)
362	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy U Notch (Upto -40°C)	IS:1499
363	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Grain Size	IS 4748 (Comparison Method)
364	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Impact Testing Charpy V Notch (Upto -40°C)	IS:1757 (Part 1)
365	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Inclusion Rating	IS 4163(Method-A)
366	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod Impact	IS:1598
367	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Metal	Bend Test	ASTM E-290-14 IS:1599
368	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheet	Cupping Test	IS:10175
369	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube	Bend Test	IS:2329
370	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube	Drift Expansion Test	IS:2335
371	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube	Flattening Test	IS:2328
372	MECHANICAL- SOIL AND ROCK	Soil- Basic	Laboratory CBR Value	IS 2720 (Part 16)
373	MECHANICAL- SOIL AND ROCK	Soil- Basic	Liquid Limit	IS:2720 (Part 5)

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374	MECHANICAL- SOIL AND ROCK	Soil- Basic	Moisture Content	IS:2720 (Part 2)
375	MECHANICAL- SOIL AND ROCK	Soil- Basic	Plastic Limit	IS:2720 (Part 5)
376	MECHANICAL- SOIL AND ROCK	Soil- Basic	Proctor Test (Heavy Compaction: MDD)	IS:2720 (Part 8)
377	MECHANICAL- SOIL AND ROCK	Soil- Basic	Proctor Test (Heavy Compaction: OMC)	IS:2720 (Part 8)
378	MECHANICAL- SOIL AND ROCK	Soil- Basic	Proctor Test (Light Compaction: MDD)	IS:2720 (Part 7)
379	MECHANICAL- SOIL AND ROCK	Soil- Basic	Proctor Test (Light Compaction: OMC)	IS:2720 (Part 7)
380	MECHANICAL- SOIL AND ROCK	Soil- Basic	Sieve Analysis	IS:2720 (Part 4)
381	MECHANICAL- SOIL AND ROCK	Soil- Basic	Specific Gravity	IS 2720 Part 3 Sec 1
382	MECHANICAL- SOIL AND ROCK	Soil-Basic	Linear Shrinkage	IS 2720 PART 20