National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : COSMO ANALYTICAL LAB, C-423 SECTOR 10, NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride	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	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Calcium Oxide	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Chloride	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Insoluble Residue	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Iron Oxide	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Loss of Ignition	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Magnesium Oxide	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Silica	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Total Sulphur (as SO3)	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Fly ash	Combined Ferric Oxide (Fe2O3) and Alumina (Al2O3)	IS 1727
16	CHEMICAL- BUILDING MATERIAL	Fly ash	Fe2O3	IS 1727
17	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss on Ignition	IS 1727
18	CHEMICAL- BUILDING MATERIAL	Fly ash	Magnesium Oxide (MgO)	IS 1727

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19	CHEMICAL- BUILDING MATERIAL	Fly ash	Silicon dioxide (SiO2)	IS 1727
20	CHEMICAL- BUILDING MATERIAL	Fly ash	Total Sulphur As Sulphur Trioxide (SO3)	IS 1727
21	CHEMICAL- BUILDING MATERIAL	Silica Fume	Loss on Ignition	IS 1727
22	CHEMICAL- BUILDING MATERIAL	Silica Fume	SiO2	IS 1727
23	CHEMICAL- CORROSION TESTS	Salt Spray Test	Salt Spray Test	ASTM B 117
24	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Phosphate Coating	Phosphate Coating	IS 3618
25	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Sheet	Uniformity of Zinc Coating	IS 2633
26	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coating	Mass of Zinc Coating	IS 6745
27	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Carbon	ASTM E 415
28	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Manganese	ASTM E 415
29	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Phosphorus	ASTM E 415
30	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Silicon	ASTM E 415
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Sulphur	ASTM E 415
32	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium alloys	Tin	ASTM E 1251-a
33	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Chromium	ASTM E 1251-a
34	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Copper	ASTM E 1251-a
35	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Iron	ASTM E 1251-a
36	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Lead	ASTM E 1251-a

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37	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Magnesium	ASTM E 1251-a
38	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Manganese	ASTM E 1251-a
39	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Nickel	ASTM E 1251-a
40	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Silicon	ASTM E 1251-a
41	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Titanium	ASTM E 1251-a
42	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Zinc	ASTM E 1251-a
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E 1999
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 228 (Part 1)
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E 1999
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E 1999
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	ASTM E 1999
48	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E 1999
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 228 (Part 2)
50	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 1999
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 228 (Part 3)
52	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E 1999
53	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 228 (Part 8)
54	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E 1999
55	CHEMICAL- METALS & ALLOYS	Copper & Copper alloy	Cobalt	BS EN 15079

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56	CHEMICAL- METALS & ALLOYS	Copper & Copper Alloy	Magnesium	BS EN 15079
57	CHEMICAL- METALS & ALLOYS	Copper & Copper Alloy	Manganese	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Aluminium	BS EN 15079
59	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Antimony	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Arsenic	BS EN 15079
61	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Bismuth	BS EN 15079
62	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Iron	BS EN 15079
63	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Lead	BS EN 15079
64	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Nickel	BS EN 15079
65	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Phosphorus	BS EN 15079
66	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Silicon	BS EN 15079
67	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Tin	BS EN 15079
68	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Zinc	BS EN 15079
69	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 228 (Part 1)
70	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 228 (Part 6)
71	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 228 (Part 2)
72	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 228 (Part 3)
73	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 228 (Part 8)
74	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Aluminium	ASTM E 415

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75	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Boron	ASTM E 415
76	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Chromium	ASTM E 415
77	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Copper	ASTM E 415
78	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Molybdenum	ASTM E 415
79	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Nickel	AETM E 415
80	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Cobalt	ASTM E 415
81	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Lead	ASTM E 415
82	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Niobium	ASTM E 415
83	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Tin	ASTM E 415
84	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Titanium	ASTM E 415
85	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Vanadium	ASTM E 415
86	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	Carbon	IS 228 (Part 1)
87	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	Manganese	IS 228 (Part 2)
88	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	Phosphorus	IS 228 (Part 3)
89	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	Silicon	IS 228 (Part 8)
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G1253-02/ ASTM E 1086
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part 1)
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 (Part 6)
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G1253-02/ ASTM E 1086

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94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G1253
95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G1253-02/ ASTM E 1086
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 (Part 2)
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G1253-02/ ASTM E 1086
98	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G1253-02/ ASTM E 1086
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G1253-02/ ASTM E 1086
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS G 1253
101	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 228 (Part 3)
102	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	JIS G1253-02/ ASTM E 1086
103	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (Part 8)
104	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G1253-02/ ASTM E 1086
105	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G1253-02/ ASTM E 1086
106	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253
107	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G 1253
108	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G1253
109	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G 1253
110	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G 1253
111	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G 1253
112	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G 1253

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113	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	JIS G 1253
114	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS G 1253
115	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS G 1253
116	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G 1253
117	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G 1253
118	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G 1253
119	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Product	Identification	ASTM E 1252-e1 (By FTIR)-1998 RA
120	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Product	Ash Content	ASTM D-297
121	CHEMICAL- WATER	Construction Water	Acidity (ml of 0.02N NAOH Solution used to neutralize 100 ml of Water Sample	IS 3025 (Part 22)
122	CHEMICAL- WATER	Construction Water	Alkalinity (ml of 0.02 N H2SO4 Solution used to neutralize 100 ml of water sample using mixed indicator	IS 3025 (Part 23)
123	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (Part 32)
124	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part 18)
125	CHEMICAL- WATER	Construction Water	Organic Solids	IS 3025 (Part 18)
126	CHEMICAL- WATER	Construction Water	pH Value	IS 3025 (Part 11)
127	CHEMICAL- WATER	Construction Water	Sulphate	IS 3025 Part 24
128	CHEMICAL- WATER	Construction Water	Total Suspended Solids	IS 3025 (Part 17)
129	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility at 25 degree C	IS 1208
130	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1448 (Part 69)
131	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
132	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205

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133	MECHANICAL- BUILDINGS MATERIALS	Bituminous mix	Binder Content	IRC SP11
134	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Compressive Strength	IS 3495 (Part 1)
135	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Dimension b) Width	IS 1077
136	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Dimension c) Height	IS 1077
137	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Dimension a) Length	IS 1077
138	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Efflorescence	IS 3495 (Part 3)
139	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Water Absorption	IS 3495 (Part 2)
140	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness (By Autoclave)	IS 4031 (Part 3)
141	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part 6)
142	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Consistency	IS 4031 (Part 4)
143	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Density	IS 4031 (Part 11)
144	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting Time	IS 4031 (Part 5)
145	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness (By Blaine Air Permeability Apparatus)	IS 4031 (Part 2)
146	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	IS 4031(Part 5)
147	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness (By Lechatelier Method)	IS 4031 (Part 3)
148	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fine Value	IS 2386 (Part 4)
149	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
150	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
151	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material- Clay lumps	IS 2386 (Part 2)

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152	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious material-Coal & Lignite	IS 2386 (Part 2)
153	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious material-Finer than 75 µ IS Sieve	IS 2386 (Part 1)
154	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
155	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
156	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
157	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Loss Angeles Abrasion value	IS 2386 (Part 4)
158	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Organic Impurities	IS 2386 (Part 2)
159	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (2.36 mm to 80 mm) IS Sieve	IS 2386 (Part 1)
160	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2So4/MgSo4	IS 2386 (Part 5)
161	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
162	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
163	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516 (Part 4)
164	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516 (part 1/sec 1)
165	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious material-Finer than 75 µ IS Sieve	IS 2386 (Part 1)
166	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
167	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious Material - Clay lumps	IS 2386 (Part-2) 1963 RA
168	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious material -Coal & Lignite	IS 2386 (Part 2) 1963 RA
169	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (Part-2) 1963 RA
170	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Particle Size (Sieve Analysis)	IS 2386 (Part 1) 1963 RA

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171	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness By Na2So4/Mgso4	IS 2386 (Part-5) 1963 RA
172	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3) 1963 RA
173	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3) 1963 RA
174	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Compressive Strength at 28 days	IS 1727
175	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness by wet sieving (45 micron IS Sieve)	IS 1727
176	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness-specific surface by Blaine’s permeability method	IS 1727
177	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Lime reactivity	IS 1727
178	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Soundness by autoclave test	IS 1727
179	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Gravity	IS 1727
180	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
181	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
182	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Bend Test(Mandrel dia 24mm, 32mm,36mm,44mm, 50mm,60mm, 70mm, 72mm,80mm, 96mm,100mm,120mm,125mm ,144mm,,150mm,175mm,200 mm,256mm)	IS 1599
183	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Elongation %	IS 1608 (Part 1)
184	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Mass per Meter	IS 1786
185	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Rebend Test(Mandrel dia 24mm, 32mm,36mm,44mm, 50mm,60mm, 70mm, 72mm,80mm, 96mm,100mm,120mm,125mm ,144mm,,150mm,175mm,200 mm,256mm)	IS 1786

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186	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Tensile Strength	IS 1608 (Part 1)
187	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Yield Strength	IS 1608 (Part 1)
188	MECHANICAL- BUILDINGS MATERIALS	Silica Fumes	Compressive Strength	IS 1727
189	MECHANICAL- BUILDINGS MATERIALS	Silica Fumes	Oversize percent retained on 45 micron IS sieve	IS 1727
190	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloy & Product	Tensile Strength	ASTM A370
191	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & product	0.2 % Proof Stress	ASTM A370
192	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & product	Elongation	ASTM A 370
193	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & product	Yield Strength	ASTM A370
194	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper, Aluminium	0.2% Proof Stress	IS 1608 Part 1
195	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper, Aluminium	Elongation %	IS 1608 Part 1
196	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper, Aluminium	Reduction Area %	IS 1608 Part 1
197	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper, Aluminium	Tensile Strength	IS 1608 Part 1
198	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper, Aluminium	Yield Strength	IS 1608 Part 1
199	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials ,alloy & product	0.2 % Proof Stress	IS 1608 (Part 1)
200	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & non Ferrous alloy & Product	Rockwell Hardness Test HRC	IS 1586-1

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non Ferrous alloy & Product	Bend Test	IS 1599
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non Ferrous alloy & Product	Brinell Hardness Test	IS 1500 (Part 1)
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non Ferrous alloy & Product	Rockwell Hardness Test HRB	IS 1586-1
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non Ferrous alloy & Product	Rockwell Hardness Test: HRA	IS 1586-1
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material , alloys & product	Reduction Area	ASTM A 370
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & product	Load Test	IS 1608 (Part 1)
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & product	Proof Load (Nut)	IS 1367 (Part-6)
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & product	Proof Load -Bolt	IS 1367 (Part-3)
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & Product	Tensile Strength	ASTM E8/E8M
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Product	Yield Strength	ASTM E8/E8M
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, Alloys & products	% Elongation	ASTM E8/E8M
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test	ASTM A 370-21 IS 2328
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Charpy Impact “V” Notch (-60°C to 22°C)	IS 1757 (Part 1)
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Izod Impact “V” Notch	IS 1598 1977 RA

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215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel , cast Iron	Elongation	IS 1608 Part 1
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel , cast Iron	Reduction Area	IS 1608 Part 1
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel , cast Iron	Yield Strength	IS 1608 Part 1
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel , cast Iron,	Tensile Strength	IS 1608 Part 1
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded specimens	Bend Test	ASME (Sec.IX)
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded specimens	Transverse in Tensile	ASME (Sec.IX)
221	MECHANICAL-METALLOGRAPHY TEST	Aluminium	Microstructure	ASM Handbook vol 9
222	MECHANICAL-METALLOGRAPHY TEST	Austenite Stainless Steel	Intergranular Corrosion Test Practice E	ASTM A 262 2015 RA
223	MECHANICAL-METALLOGRAPHY TEST	Austenite Stainless Steel	Intergranular Corrosion Test Practice A	ASTM A 262-2015 RA
224	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Designation of microstructure of graphite in cast iron by form, size & distribution by comparison method	IS 7754 1975 RA
225	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non Ferrous material, alloys & product	Microvickers Hardness Test (1 kg)	IS 1501 (part 1)
226	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non Ferrous material, alloys & product	Microvickers Hardness Test (100gm)	IS 1501 (Part 1)
227	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non Ferrous material, alloys & product	Microvickers Hardness Test (200gm)	IS 1501 (part 1)
228	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non Ferrous material, alloys & product	Microvickers Hardness Test (300gm)	IS 1501 (Part 1)
229	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non Ferrous material, alloys & product	Microvickers Hardness Test (500gm)	IS 1501 (part 1)
230	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & product	Macro Examination	ASTM SEC-9/ISO 15614 (Part-1)

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231	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Vicker Hardness Tester (Load-5 Kgf, 10 Kgf, 30 Kgf)	IS 1501 (Part-1)
232	MECHANICAL-METALLOGRAPHY TEST	Materials, alloys & Products (Steel, Stainless Steel)	Microstructure	ASM Handbook Vol. 9
233	MECHANICAL-METALLOGRAPHY TEST	Metallic coating materials	Plating Thickness	ASTM B487 (by Microscopic Method)
234	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburized Layer by Microscopic Method	IS 6396 2000 RA
235	MECHANICAL-METALLOGRAPHY TEST	Steel	Determination of case Depth by Hardness Traverse Method	IS 6416
236	MECHANICAL-METALLOGRAPHY TEST	Steel	Determination of Case Depth by Microscopic Method	IS 6416 1988 RA
237	MECHANICAL-METALLOGRAPHY TEST	Steel	Grain Size by Comparison Method	IS 4748
238	MECHANICAL-METALLOGRAPHY TEST	Steel	Grain Size by Comparison Method	ASTM E 112
239	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating	ASTM E 45-a
240	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating (Steel Products) for method -A	IS 4163
241	MECHANICAL-METALLOGRAPHY TEST	Steel	Macro Test	ASTM E 381
242	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Prodct	Hardness Shore D	ASTM D 2240 e1
243	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Product	Density	IS 3400 (Part 9)
244	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber & its Product	Compression Set	IS 3400 (Part-10)-1977 RA
245	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber & its Product	Elongation at break	ASTM D 412
246	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber & its Product	Tensile Strength	ASTM D412
247	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic Rubber & Product	Hardness Shore A	ASTM D 2240-e1
248	MECHANICAL- SOIL AND ROCK	Bentonite	Liquid limit	IS 2720 (Part 5) 1985 RA
249	MECHANICAL- SOIL AND ROCK	Bentonite	pH at 2% suspension	IS 2720 (Part 26) 1987 RA

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250	MECHANICAL- SOIL AND ROCK	Bentonite	Swelling Index	IS 2720 (Part 40) 1977 RA
251	MECHANICAL- SOIL AND ROCK	Clay & Soils	Plastic Limit	IS 2720 (Part-5) 1985 RA
252	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR) value	IS 2720 Part 16 1987 RA
253	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 Part 1 1983 RA
254	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction Test b) Optimum Moisture Content	IS 2720 Part 8 1983 RA
255	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction Test a) Maximum Dry Density	IS 2720 Part 8 1983 RA
256	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test : a) Maximum Dry Denstity	IS 2720 Part 7 1980, RA
257	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test: b) Optimum Moisture Content	IS 2720 (Part 7) 1980, RA
258	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 Part 5 1985 RA
259	MECHANICAL- SOIL AND ROCK	Stone (Marble, Kota Stone & Granite)	Compressive Strength	IS 1121 (Part 1): 2013, RA
260	MECHANICAL- SOIL AND ROCK	Stone (Marble, Kota Stone & Granite)	Moisture Content	IS 1124-1974 RA
261	MECHANICAL- SOIL AND ROCK	Stone (Marble, Kota Stone & Granite)	Specific Gravity	IS 1122-1974 RA
262	MECHANICAL- SOIL AND ROCK	Stones (Marble, Kota Stone & Granite)	Water Absorption	IS 1124-1974 RA
263	MECHANICAL- WOOD AND WOOD PRODUCTS	Timber	Density	IS 1708 (Part 1 to 18):1986, RA
264	MECHANICAL- WOOD AND WOOD PRODUCTS	Timber	Moisture Content	IS 1708 (Part 1to 18)-1986 RA