



Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

CAB Name: Bhaskar Material Testing Lab **Page No. 1 of 21**
Address: Plot No. 20, Vajra Army Enclave, Khusropur, Near Army Public School, Jalandhar-144024, Punjab.
Certificate No.: T-0027

Issue date : 15.11.2025

Validity : 14.11.2029

Amendment date: N/A

S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
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Field: Chemical, Discipline: Building Materials

1	Cement (OPC/PPC)	Chloride	0.005 % to 0.2 %	IS 4032	Permanent
2	Cement (OPC/PPC)	Insoluble Residue	0.10 % to 40.0 %	IS 4032	Permanent
3	Cement (OPC/PPC)	Loss on Ignition	0.50 % to 10.0 %	IS 4032	Permanent
4	Cement (OPC/PPC)	Sulphuric Anhydride	0.10 % to 5.0 %	IS 4032	Permanent
5	Cement (OPC/PPC)	Magnesia	0.10 % to 10.0 %	IS 4032	Permanent
6	Cement (OPC/PPC)	Ratio of percentage of alumina to that of iron oxide	0.10 % to 2.5 %	IS 4032	Permanent
7	Cement (OPC/PPC)	Ratio of percentage of lime to percentages of silica, alumina and iron oxide	0.40 % to 1.50 %	IS 4032	Permanent
8	Admixture	Ash Content	0.50 % to 15.0 %	IS 9103	Permanent
9	Admixture	Chloride	0.01 % to 0.25 %	IS 6925	Permanent
10	Admixture	Dry Material content	10.00 % to 50.0 %	IS 9103	Permanent
11	Admixture	pH Value	4.00 to 12.00	IS 9103	Permanent
12	Admixture	Relative Density	1.00 to 1.50	IS 9103	Permanent
13	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Carbon equivalent	0.1 % to 1 %	IS 1786 (By Calculation)	Permanent
14	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Carbon	0.10 % to 1.00 %	IS 228 (Part-1)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
15	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Sulphur	0.010 % to 0.250 %	IS 228 (Part 9)	Permanent
16	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Phosphorus	0.005 % to 0.200 %	IS 228 (Part 3)	Permanent
17	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Sulphur + Phosphorus	0.010 % to 10 %	IS 1786 (By Calculation)	Permanent
18	Steel Plates/Flats/Angles/Channels/Tees/Beams/Bars	Carbon equivalent	0.1 % to 1 %	IS 2062 (By Calculation)	Permanent
19	Steel Plates/Flats/Angles/Channels/Tees/Beams/Bars	Carbon	0.10 % to 1.00 %	IS 228 (Part-1)	Permanent
20	Steel Plates/Flats/Angles/Channels/Tees/Beams/Bars	Manganese	0.05 % to 10 %	IS 228 (Part 2)	Permanent
21	Steel Plates/Flats/Angles/Channels/Tees/Beams/Bars	Sulphur	0.010 % to 0.250 %	IS 228 (Part 9)	Permanent
22	Steel Plates/Flats/Angles/Channels/Tees/Beams/Bars	Phosphorus	0.005 % to 0.200 %	IS 228 (Part 3)	Permanent
23	Steel Plates/Flats/Angles/Channels/Tees/Beams/Bars	Silicon	0.10 % to 1.00 %	IS 228 (Part 8)	Permanent
24	Coupler	Carbon	0.1 % to 1 %	IS 228 (Part 1)	Permanent
25	Coupler	Manganese	0.05 % to 2 %	IS 228 (Part 2)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
26	Coupler	Phosphorus	0.005 % to 0.2 %	IS 228 (Part 3)	Permanent
27	Coupler	Sulphur	0.01 % to 0.25 %	IS 228 (Part 9)	Permanent
28	HT Strand Wire	Carbon	0.1 % to 1 %	IS 228 (Part 1)	Permanent
29	HT Strand Wire	Phosphorus	0.005 % to 0.25 %	IS 228 (Part 3)	Permanent
30	HT Strand Wire	Sulphur	0.005 % to 0.25 %	IS 228 (Part 9)	Permanent
31	HT Strand Wire	Sulphur + Phosphorus	0.01 % to 10 %	IS 14268	Permanent
32	Stainless Steel	Manganese	0.05 % to 10 %	IS 228 (Part 2)	Permanent
33	Stainless Steel	Carbon	0.05 % to 2.5 %	IS 228 (Part-1)	Permanent
34	Stainless Steel	Phosphorus	0.01 % to 2.0 %	IS 228 (Part-3)	Permanent
35	Stainless Steel	Sulphur	0.01 % to 0.25 %	IS 228 (Part-9)	Permanent
36	Stainless Steel	Manganese as Mn	0.05 % to 10 %	IS 228 (Part-2)	Permanent
37	Stainless Steel	Silicon	0.10 % 1.00 %	IS 228 (Part 8)	Permanent
38	Water for construction purpose	Chloride as Cl	1.0 mg/l to 2000 mg/l	IS 3025 P-32	Permanent
39	Water for construction purpose	Inorganic Matter	5.0 mg/l to 4000.0 mg/l	IS 3025 (Part-18)	Permanent
40	Water for construction purpose	Organic Matter	5.0 mg/l to 300 mg/l	IS 3025 (Part-18)	Permanent
41	Water for construction purpose	pH Value	1.0 to 14.0	IS 3025 (P-11)	Permanent
42	Water for construction purpose	Sulphate as SO4	1.0 mg/l to 1000 mg/l	IS 3025 (Part-24) Sec -1	Permanent
43	Water for construction purpose	To neutralize 100 ml sample of water, using	0.1 ml to 100 ml	IS 3025 (Part-23)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
		mixed indicator, of 0.02 normal H ₂ SO ₄			
44	Water for construction purpose	To neutralize 100 ml sample of water, usir.1 phenolphthalein as an indicator, it 0.02normal NaOH	0.1 ml to 10.0 ml	IS 3025 (Part-22)	Permanent
45	Water for construction purpose	Total Dissolved Solid	5.0 mg/l to 5000.0 mg/l	IS 3025 (Part-16)	Permanent
46	Water for construction purpose	Total Suspended Solid	1.0 mg/l to 1000.0 mg/l	IS 3025 (Part-17)	Permanent
47	Water for construction purpose	Total solid	5 mg/l to 5000 mg/l	IS 3025 Part 15	Permanent
48	Drinking Water	pH	1.0 to 14.0	IS 3025 P-11	Permanent
49	Drinking Water	Turbidity	0.1 NTU to 500 NTU	IS 3025 P-10	Permanent
50	Drinking Water	Conductivity	1 μ S/cm to 5000 μ S/cm	IS 3025 P-14	Permanent
51	Drinking Water	Total dissolved solids	5.0 mg/l to 50000 mg/l	IS 3025 P-16	Permanent
52	Drinking Water	Calcium (as Ca)	1.0 mg/l to 500 mg/l	IS 3025 P-40	Permanent
53	Drinking Water	Chloride (as Cl)	1.0 mg/l to 500 mg/l	IS 3025 P-32	Permanent
54	Drinking Water	Magnesium (as Mg)	0.5 mg/l to 500 mg/l	IS 3025 P-46	Permanent
55	Drinking Water	Sulphate (as SO ₄)	1.0 mg/l to 500 mg/l	IS 3025 Part 24	Permanent



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56	Drinking Water	Total alkalinity as CaCO ₃	1.0 mg/l to 1000 mg/l	IS 3025 Part 23	Permanent
57	Drinking Water	Total hardness as CaCO ₃	1.0 mg/l to 1000 mg/l	IS 3025 (Part 21)	Permanent

Field: Mechanical, Discipline: Building Materials

58	Coarse Aggregate	Sieve Analysis (80, 63, 40mm, 20mm, 12.5mm, 10mm, 4.75mm, 2.36mm)	0 % to 100 %	IS 2386 (Part 1)	Permanent
59	Coarse Aggregate	Bulk Density	1 kg/L to 3 kg/L	IS 2386 (Part 3)	Permanent
60	Coarse Aggregate	Impact Value	5 % to 50 %	IS 2386 (Part 4)	Permanent
61	Coarse Aggregate	Crushing Value	5 % to 50 %	IS 2386 (Part 4)	Permanent
62	Coarse Aggregate	10% Fine Value	5 Ton to 50 Ton	IS 2386 (Part 4)	Permanent
63	Coarse Aggregate	Elongation Index	1 % to 50 %	IS 2386 (Part 1)	Permanent
64	Coarse Aggregate	Flakiness Index	1 % to 50 %	IS 2386 (Part 1)	Permanent
65	Coarse Aggregate	Material Finer Than 75 Micron IS sieve	0.01 % to 15 %	IS 2386 (Part 1)	Permanent
66	Coarse Aggregate	Soundness Test Using (Na ₂ SO ₄)	0.1 % to 20 %	IS 2386 (Part 5)	Permanent
67	Coarse Aggregate	Specific gravity	2.0 to 4.0	IS 2386 (Part 3)	Permanent
68	Coarse Aggregate	Water Absorption	0.02 % to 5 %	IS 2386 (Part 3)	Permanent
69	Coarse Aggregate	Clay Lumps	0.01 % to 2 %	IS 2386 (Part 2)	Permanent
70	Coarse Aggregate	Coal and Lignite	0.01 % to 2 %	IS 2386 (Part 2)	Permanent
71	Fine Aggregate	Materials Finer than 75 micron	0.1 % to 10 %	IS 2386 (Part 1)	Permanent
72	Fine Aggregate	Bulk Density(Dry)	1 kg/L to 2 kg/L	IS 2386 (Part 3)	Permanent
73	Fine Aggregate	Bulking of sand	0.1 % to 15 %	IS 2386 (Part 3)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
74	Fine Aggregate	Clay Lumps	0.01 % to 2 %	IS 2386 (Part 2)	Permanent
75	Fine Aggregate	Coal and Lignite	0.01 % to 2 %	IS 2386 (Part 2)	Permanent
76	Fine Aggregate	Organic Impurities	Qualitative	IS 2386 (Part 2)	Permanent
77	Fine Aggregate	Sieve Analysis (10mm, 4.75mm, 2.36mm, 1.18mm, 600micron, 300micron, 150micron)	0 % to 100 %	IS 2386 (Part 1)	Permanent
79	Fine Aggregate	Silt Content	0.5 % to 20 %	IS 2386 (Part 3)	Permanent
80	Fine Aggregate	Soundness Test Using (Na ₂ S ₀₄)	0.01 % to 20 %	IS 2386 (Part 5)	Permanent
81	Fine Aggregate	Soundness Test using (MgS ₀₄)	0.01 % to 20 %	IS 2386 (Part 5)	Permanent
82	Fine Aggregate	Specific gravity	2.1 to 3.0	IS 2386 (Part 3)	Permanent
83	Fine Aggregate	Water Absorption	0.1 % to 10 %	IS 2386 (Part 3)	Permanent
84	Bitumen Felts & Bitumen Emulsion	Bitumen Content	5 % to 80 %	IS 3117 Annex B	Permanent
85	Burnt Clay Bricks	Compressive strength	5 N/mm ² to 20 N/mm ²	IS 3495(Part 1)	Permanent
86	Burnt Clay Bricks	Dimension(Height)	1200 mm to 1500 mm	IS 1077	Permanent
87	Burnt Clay Bricks	Dimension(Length)	4000 mm to 5000 mm	IS 1077	Permanent
88	Burnt Clay Bricks	Dimension(Width)	2000 mm to 2400 mm	IS 1077	Permanent
89	Burnt Clay Bricks	Efflorescence test	Qualitative	IS 3495(Part 3)	Permanent
90	Burnt Clay Bricks	Water absorption	1 % to 25 %	IS 3495(Part 2)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
91	Burnt Clay Fly Ash Bricks	Compressive strength	5 N/mm ² to 20 N/mm ²	IS 3495(Part 1)	Permanent
92	Burnt Clay Fly Ash Bricks	Dimension(Height)	1200 mm to 1500 mm	IS 13757	Permanent
93	Burnt Clay Fly Ash Bricks	Dimension(Length)	4000 mm to 5000 mm	IS 13757	Permanent
94	Burnt Clay Fly Ash Bricks	Dimension(Width)	2000 mm to 2400 mm	IS 13757	Permanent
95	Burnt Clay Fly Ash Bricks	Efflorescence test	Qualitative	IS 3495(Part 3)	Permanent
96	Burnt Clay Fly Ash Bricks	Water absorption	1 % to 25 %	IS 3495(Part 2)	Permanent
97	Sewer Bricks	Compressive strength	10 N/mm ² to 30 N/mm ²	IS 3495(Part 1)	Permanent
98	Sewer Bricks	Dimension(Height)	1300 mm to 1900 mm	IS 4885	Permanent
99	Sewer Bricks	Dimension(Length)	3600 mm to 4000 mm	IS 4885	Permanent
100	Sewer Bricks	Dimension(width)	1700 mm to 2000 mm	IS 4885	Permanent
101	Sewer Bricks	Efflorescence test	Qualitative	IS 3495(Part 3)	Permanent
102	Sewer Bricks	Water absorption	1 % to 17%	IS 3495(Part 2)	Permanent
103	Burnt Clay Terracing Bricks	Compressive strength	5 N/mm ² to 20 N/mm ²	IS 3495(Part 1)	Permanent
104	Burnt Clay Terracing Bricks	Dimension(Height)	750 mm to 900 mm	IS : 2690 (P-2)	Permanent
105	Burnt Clay Terracing Bricks	Dimension(Length)	3600 mm to 4700 mm	IS : 2690(P-2)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
106	Burnt Clay Terracing Bricks	Dimension(width)	1700 mm to 2300 mm	IS : 2690(P-2)	Permanent
107	Burnt Clay Terracing Bricks	Efflorescence test	Qualitative	IS 3495(Part 3)	Permanent
108	Burnt Clay Terracing Bricks	Water absorption	1 % to 25%	IS 3495(Part 2)	Permanent
109	Cement : OPC 33,43,53 Grades/PPC PSC/White Cement	Compressive Strength	5 N/mm ² to 80 N/mm ²	IS 4031 (Part-6)	Permanent
110	Cement : OPC 33,43,53 Grades/PPC PSC/White Cement	Consistency	20 % to 44 %	IS 4031 (Part-4)	Permanent
111	Cement : OPC 33,43,53 Grades/PPC PSC/White Cement	Fineness by Dry Sieving	1% to 10 %	IS 4031 (Part-1)	Permanent
112	Cement : OPC 33,43,53 Grades/PPC PSC/White Cement	Fineness by Blaine's airpermeability	220m ² /kg to 450m ² /kg	IS 4031 (Part-2)	Permanent
113	Cement : OPC 33,43,53 Grades/PPC PSC/White Cement	Settingtime (Final)	80 Minutes to 600 Minutes	IS 4031 (Part-5)	Permanent
114	Cement : OPC 33,43,53 Grades/PPC PSC/White Cement	Settingtime (Initial)	50 Minutes to 350 Minutes	IS 4031 (Part-5)	Permanent
115	Cement : OPC 33,43,53 Grades/PPC PSC/White Cement	Soundness(by Lechatelier method)	0.1 mm to 10 mm	IS 4031 (Part-3)	Permanent
116	Concrete Paving Blocks	Compressive strength	10 N/mm ² to 80 N/mm ²	IS 15658	Permanent



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117	Concrete Paving Blocks	Dimension Length	50 mm to 600 mm	IS 15658	Permanent
118	Concrete Paving Blocks	Dimension thickness	10 mm to 150 mm	IS 15658	Permanent
119	Concrete Paving Blocks	Dimension width	50 mm to 500 mm	IS 15658	Permanent
120	Concrete Paving Blocks	Plan Area of Paving Block	0.024 m ² to 0.032 m ²	IS 15658	Permanent
121	Concrete Paving Blocks	Aspect Ratio (L/T)	1.0 to 4.0	IS 15658	Permanent
122	Concrete Paving Blocks	Deviation from Squareness	0 to 3 mm	IS 15658	Permanent
123	Concrete Paving Blocks	Water Absorption	0.01 % to 10 %	IS 15658	Permanent
124	Concrete Paving Blocks	Dry Abrasion Resistance	5000(mm ³ /mm ²) - 20000(mm ³ /mm ²)	IS 15658	Permanent
125	Concrete Paving Blocks	Wet Abrasion Resistance	5000(mm ³ /mm ²) - 22000(mm ³ /mm ²)	IS 15658	Permanent
126	Design of Concrete	Compressive Strength	Qualitative	IS 516 Part 1/sec-1	Permanent
127	Design of Concrete	Slump Test	1 mm to 300 mm	IS 1199 (Part-2)	Permanent
128	Concrete Core	Compressive Strength of concrete cores	5 N/mm ² to 85 N/mm ²	IS 516 Part -4	Permanent
129	Concrete Cube	Compressive Strength	5 N/mm ² to 85 N/mm ²	IS 516 Part 1/sec-1	Permanent
130	Concrete Beam	Flexural Strength	1 N/mm ² to 10 N/mm ²	IS 516 Part 1/sec-1	Permanent
131	Concrete Kerb	Height of Kerb	150 to 450 mm	IS : 5758	Permanent
132	Concrete Kerb	Thickness of Kerb	100mm to 165mm	IS : 5758	Permanent



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133	Concrete Kerb	Water Absorption	0.5 to 6.0 %	IS : 5758	Permanent
134	Concrete Channel	Height of Channel	150 to 450 mm	IS : 5758	Permanent
135	Concrete Channel	Thickness of Channel	100 mm to 150 mm	IS : 5758	Permanent
136	Concrete Channel	Water Absorption	0.5 to 6.0 %	IS : 5758	Permanent
137	GSB Mix	Gradation of GSB Mix	0 % to 100 %	IS : 2386 (P1)	Permanent
138	GSB Mix	Aggregate Impact Value	1 % to 35 %	IS : 2386 (P4)	Permanent
139	GSB Mix	Water Absorption	0.1 % to 5 %	IS : 2386 (P3)	Permanent
140	GSB Mix	Heavy Compaction MDD	1.5 g/cc to 3 g/cc	IS : 2720 (P8)	Permanent
141	GSB Mix	Heavy Compaction OMC	5 % to 30 %	IS : 2720 (P8)	Permanent
142	GSB Mix	Liquid Limit	15 to 80	IS : 2720 (P5)	Permanent
143	GSB Mix (Embankment Construction)	Bulk Density	1 kg/L to 3 kg/L	IS : 2386 (P3)	Permanent
144	WBM Screening	Aggregate Impact Value	1 % to 30 %	IS : 2386 (P4)	Permanent
145	WBM Screening	Flakiness Index	0 % to 50 %	IS : 2386 (P1)	Permanent
146	WBM Screening	Elongation Index	1 % to 50 %	IS : 2386 (P1)	Permanent
147	WBM Screening	Gradation of WBM Screening	0 % to 100 %	IS : 2386 (P1)	Permanent
148	WBM Screening	Water Absorption	0.1 % to 5 %	IS : 2386 (P3)	Permanent
149	WBM Mix	Aggregate Impact Value	5 % to 35 %	IS : 2386 (P4)	Permanent
150	WBM Mix	Flakiness Index	0 % to 50 %	IS : 2386 (P1)	Permanent
151	WBM Mix	Elongation Index	1 % to 50 %	IS : 2386 (P1)	Permanent
152	WBM Mix	Gradation of WBM Mix	0.5 to 100 %	IS : 2386 (P1)	Permanent
153	WBM Mix	Water Absorption	0.1 % to 5 %	IS : 2386 (P3)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
154	WMM Mix	Aggregate Impact Value	5 % to 35 %	IS : 2386 (P4)	Permanent
155	WMM Mix	Flakiness Index	0 % to 50 %	IS : 2386 (P1)	Permanent
156	WMM Mix	Elongation Index	1 % to 50 %	IS : 2386 (P1)	Permanent
157	WMM Mix	Gradation of WMM Mix	0 % to 100 %	IS : 2386 (P4)	Permanent
158	WMM Mix	Water Absorption	0.1 % to 5 %	IS : 2386 (P3)	Permanent
159	WMM Mix (Embankment Construction)	Bulk Density	1 kg/L to 3 kg/L	IS : 2386 (P3)	Permanent
160	GSB/WBM/WMM Field	Field Density by Sand Replacement Method	1.8 g/cc to 3 g/cc	IS : 2720 (P-28)	Permanent
161	Soil/Granular Material	Grain Size Analysis Below 4.75 mm	0 % to 100 %	IS : 2720 (P-4)	Permanent
162	Soil/Granular Material	Light Compaction-MDD	1 g/cc to 3 g/cc	IS : 2720 (P-7)	Permanent
163	Soil/Granular Material	Light Compaction-OMC	5% to 30 %	IS : 2720 (P-7)	Permanent
164	Soil/Granular Material	Heavy Compaction-MDD	1 g/cc to 3 g/cc	IS : 2720 (P-8)	Permanent
165	Soil/Granular Material	Heavy Compaction-OMC	5% to 30 %	IS : 2720 (P-8)	Permanent
166	Soil/Granular Material	Liquid Limit	10 % to 80 %	IS : 2720 (P-5)	Permanent
167	Soil/Granular Material	Plastic Limit	0 % to 60 %	IS : 2720 (P-5)	Permanent
168	Soil/Granular Material	Water Content by Oven Drying	0 % to 100 %	IS : 2720 (P-2)	Permanent
169	Soil Field	Soil Field Density by Sand Replacement	1.5 g/cc to 2.5 g/cc	IS : 2720 (P-28)	Permanent
170	Soil Field	Soil Field Density by Core Cutter	1.5 g/cc to 2.5 g/cc	IS : 2720 (P-29)	Permanent
171	Ceramic Tiles	Length	100 mm to 600 mm	IS : 13630 (P1)	Permanent



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Issue date :15.11.2025

Validity : 14.11.2029

Amendment date: N/A

S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
172	Ceramic Tiles	Width	100 mm to 600 mm	IS : 13630 (P1)	Permanent
173	Ceramic Tiles	Thickness	4.5-11 mm	IS : 13630 (P1)	Permanent
174	Ceramic Tiles	Straightness of Side	0.03 mm to 2.0 mm	IS : 13630 (P1)	Permanent
175	Ceramic Tiles	Centre Curvature	0.03mm to 1.0 mm	IS : 13630 (P1)	Permanent
176	Ceramic Tiles	Edge Curvature	0.03mm to 1.0 mm	IS : 13630 (P1)	Permanent
177	Ceramic Tiles	Warpage	0.03mm to 1.0 mm	IS : 13630 (P1)	Permanent
178	Ceramic Tiles	Rectangularity	0.001 mm to 2.0 mm	IS : 13630 (P1)	Permanent
179	Ceramic Tiles	Bulk Density	16.5 gm/cm ³ -20.5 gm/cm ³	IS : 13630 (P2)	Permanent
180	Ceramic Tiles	Water Absorption	0 % to 12 %	IS : 13630 (P2)	Permanent
181	Chequered Cement Concrete Tiles	Length	200 mm to 400 mm (+/- 1 mm)	IS: 13801	Permanent
182	Chequered Cement Concrete Tiles	Width	200 mm to 400 mm (+/- 1 mm)	IS: 13801	Permanent
183	Chequered Cement Concrete Tiles	Thickness-Single Layer	17mm to 23 mm	IS: 13801	Permanent
184	Chequered Cement Concrete Tiles	Thickness-Double Layer	22mm to 28.75 mm	IS: 13801	Permanent
185	Chequered Cement Concrete Tiles	Flatness of the surface	0.03 mm to 2.0 mm	IS: 13801	Permanent
186	Chequered Cement Concrete Tiles	Straightness	0.03 mm to 2.0 mm	IS: 13801	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
187	Chequered Cement Concrete Tiles	Perpendicularity	0.03 mm to 5 mm	IS: 13801	Permanent
188	Chequered Cement Concrete Tiles	Thickness of Wearing layer-for Double Layer Tiles	5 mm to 6 mm	IS: 13801	Permanent
189	Chequered Cement Concrete Tiles	Water Absorption%	1% to 10 %	IS: 13801	Permanent
190	Chequered Cement Concrete Tiles	Resistance to Wear	2 mm to 4 mm	IS: 13801	Permanent
191	Cement Concrete Flooring Tiles	Dimension-Length	200 mm to 400 mm	IS:1237	Permanent
192	Cement Concrete Flooring Tiles	Dimension-Width	200 mm to 400 mm	IS:1237	Permanent
193	Cement Concrete Flooring Tiles	Dimension-Thickness-Single Layer	10 mm to 16 mm	IS:1237	Permanent
194	Cement Concrete Flooring Tiles	Dimension-Thickness-Double Layer	15 mm to 25 mm	IS:1237	Permanent
195	Cement Concrete Flooring Tiles	Flatness of the surface	0.03 mm to 2.0 mm	IS:1237	Permanent
196	Cement Concrete Flooring Tiles	Straightness	0.03 mm to 2 mm	IS:1237	Permanent
197	Cement Concrete Flooring Tiles	Perpendicularity	0.03 mm to 5 mm	IS:1237	Permanent
198	Cement Concrete Flooring Tiles	Water Absorption%	1% to 10 %	IS:1237	Permanent
199	Cement Concrete Flooring Tiles	Resistance to Wear	2 mm to 4 mm	IS:1237	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
200	Autoclave Cellular Aerated Concrete Blocks	Dimension-Length	395mm to 605mm	IS:2185 (P-3)	Permanent
201	Autoclave Cellular Aerated Concrete Blocks	Dimension-Width	97mm to 253	IS:2185 (P-3)	Permanent
202	Autoclave Cellular Aerated Concrete Blocks	Dimension-Height	197mm to 303 mm	IS:2185 (P-3)	Permanent
203	Autoclave Cellular Aerated Concrete Blocks	Block Density	451 kg/m ³ to 1000 kg/m ³	IS:2185 (P-3)	Permanent
204	Autoclave Cellular Aerated Concrete Blocks	Compressive Strength	1.5 N/mm ² to 7.0 N/mm ²	IS:2185 (P-3)	Permanent
205	Preformed Foam Cellular Concrete Blocks	Dimension-Length	395mm to 605mm	IS:2185 (P-4)	Permanent
206	Preformed Foam Cellular Concrete Blocks	Dimension-Width	97mm to 253	IS:2185 (P-4)	Permanent
207	Preformed Foam Cellular Concrete Blocks	Dimension-Height	197mm to 303 mm	IS:2185 (P-4)	Permanent
208	Preformed Foam Cellular Concrete Blocks	Block Density	800 kg/m ³ to 1800 kg/m ³	IS:2185 (P-4)	Permanent
209	Preformed Foam Cellular Concrete Blocks	Compressive Strength	2.0 N/mm ² to 25.0 N/mm ²	IS:2185 (P-4)	Permanent
210	Preformed Foam Cellular Concrete Blocks	Water Absorption	7.5 % to 12.5 %	IS:2185 (P-4)	Permanent
211	Hollow And Solid Concrete Blocks	Dimension-Length	395mm to 605mm	IS:2185 (P-1)	Permanent
212	Hollow And Solid Concrete Blocks	Dimension-Width	47mm to 253mm	IS:2185 (P-1)	Permanent
213	Hollow And Solid Concrete Blocks	Dimension-Height	97mm to 203mm	IS:2185 (P-1)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
214	Hollow And Solid Concrete Blocks	Dimension-Face Shell Thickness	25mm to 30mm	IS:2185 (P-1)	Permanent
215	Hollow And Solid Concrete Blocks	Dimension-Thickness of Web	25mm to 30mm	IS:2185 (P-1)	Permanent
216	Hollow And Solid Concrete Blocks	Block Density	1100 kg/m ³ to 1800 kg/m ³	IS:2185 (P-1)	Permanent
217	Hollow And Solid Concrete Blocks	Compressive Strength	3.5 N/mm ² to 15.0 N/mm ²	IS:2185 (P-1)	Permanent
218	Hollow And Solid Concrete Blocks	Water Absorption	7.5 % to 12.5 %	IS:2185 (P-1)	Permanent
219	Hollow And Solid Light Weight Concrete Blocks	Dimension-Length	395mm to 605mm	IS:2185 (P-2)	Permanent
220	Hollow And Solid Light Weight Concrete Blocks	Dimension-Width	47mm to 253mm	IS:2185 (P-2)	Permanent
221	Hollow And Solid Light Weight Concrete Blocks	Dimension-Height	97mm to 203mm	IS:2185 (P-2)	Permanent
222	Hollow And Solid Light Weight Concrete Blocks	Block Density	Not more Than 1600 kg/m ³	IS:2185 (P-2)	Permanent
223	Hollow And Solid Light Weight Concrete Blocks	Compressive Strength	4.0 N/mm ² to 12.5 N/mm ²	IS:2185 (P-2)	Permanent
224	Hollow And Solid Light Weight Concrete Blocks	Water Absorption	7.5 % to 12.5 %	IS:2185 (P-2)	Permanent
225	Bituminous Macadam (BM)	Bitumen Content	3.0 % to 4.0 %	IS: 19008 : 2023/ASTM-D2172	Permanent
226	Bituminous Macadam (BM)Stone Aggregates	Gradation	0 % to 100 %	IS:2386-(P1)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
227	Bituminous Macadam (BM)Stone Aggregates	Combined Flakiness & Elongation Index	0 % to 35 %	IS:2386-(P1)	Permanent
228	Bituminous Macadam (BM)Stone Aggregates	Water Absorption	0 % to 2.0 %	IS:2386-(P3)	Permanent
229	Bituminous Macadam (BM)Stone Aggregates	Impact Value	0 % to 30 %	IS:2386-(P4)	Permanent
230	Bituminous Macadam (BM)Stone Aggregates	Soundness Test Using (Na ₂ SO ₄)	0 % to 12 %	IS:2386-(P5)	Permanent
231	Bituminous Macadam (BM)Stone Aggregates	Soundness Test Using (MgSO ₄)	0 % to 18 %	IS:2386-(P5)	Permanent
232	Dense Bituminous Macadam (DBM)	Bitumen Content	4.0 % to 5.0 %	IS: 19008 : 2023/ASTM-D2172	Permanent
233	Dense Bituminous Macadam (DBM) Stone Aggregates	Gradation	0 % to 100 %	IS:2386-(P1)	Permanent
234	Dense Bituminous Macadam (DBM) Stone Aggregates	Combined Flakiness & Elongation Index	0 % to 35 %	IS:2386-(P1)	Permanent
235	Dense Bituminous Macadam (DBM) Stone Aggregates	Water Absorption	0 % to 2.0 %	IS:2386-(P3)	Permanent
236	Dense Bituminous Macadam (DBM) Stone Aggregates	Impact Value	0 % to 27 %	IS:2386-(P4)	Permanent
237	Dense Bituminous Macadam (DBM) Stone Aggregates	Soundness Test Using (Na ₂ SO ₄)	0 % to 12 %	IS:2386-(P5)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
238	Dense Bituminous Macadam (DBM) Stone Aggregates	Soundness Test Using (MgSO ₄)	0 % to 18 %	IS:2386-(P5)	Permanent
239	Bituminous Concrete (BC)	Bitumen Content	5.0 % to 6.0 %	IS: 19008 : 2023/ASTM-D2172	Permanent
240	Bituminous Concrete (BC) Stone Aggregates	Gradation	0 % to 100 %	IS:2386-(P1)	Permanent
241	Bituminous Concrete (BC) Stone Aggregates	Combined Flakiness & Elongation Index	0 % to 35 %	IS:2386-(P1)	Permanent
242	Bituminous Concrete (BC) Stone Aggregates	Water Absorption	0 % to 2.0 %	IS:2386-(P3)	Permanent
243	Bituminous Concrete (BC) Stone Aggregates	Impact Value	0 % to 24 %	IS:2386-(P4)	Permanent
244	Bituminous Concrete (BC) Stone Aggregates	Soundness Test Using (Na ₂ SO ₄)	0 % to 12 %	IS:2386-(P5)	Permanent
245	Bituminous Concrete (BC) Stone Aggregates	Soundness Test Using (MgSO ₄)	0 % to 18 %	IS:2386-(P5)	Permanent
246	Semi-Dense Bituminous Concrete (SDBC)	Bitumen Content	4.5 % to 5.5 %	IS: 19008 : 2023/ASTM-D2172	Permanent
247	Semi-Dense Bituminous Concrete (SDBC) Stone Aggregates	Gradation	0 % to 100 %	IS:2386-(P1)	Permanent
248	Semi-Dense Bituminous Concrete (SDBC) Stone Aggregates	Combined Flakiness & Elongation Index	0 % to 30 %	IS:2386-(P1)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
249	Semi-Dense Bituminous Concrete (SDBC) Stone Aggregates	Water Absorption	0 % to 2.0 %	IS:2386-(P3)	Permanent
250	Semi-Dense Bituminous Concrete (SDBC) Stone Aggregates	Impact Value	0 % to 27 %	IS:2386-(P4)	Permanent
251	Semi-Dense Bituminous Concrete (SDBC) Stone Aggregates	Soundness Test Using (Na ₂ SO ₄)	0 % to 12 %	IS:2386-(P5)	Permanent
252	Semi-Dense Bituminous Concrete (SDBC) Stone Aggregates	Soundness Test Using (MgSO ₄)	0 % to 18 %	IS:2386-(P5)	Permanent
253	Stone Ballast	Gradation	0 % to 100 %	IS:2386-(P1)	Permanent
254	Stone Ballast	Water Absorption	0 % to 1.0 %	IS:2386-(P3)	Permanent
255	Stone Ballast	Impact Value	0 % to 35 %	IS:2386-(P4)	Permanent
256	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Bend test	Qualitative :Mendral Diameter (12,16,24,30,36, 48,60,64,72,80, 96,100,120,125 & 150 mm)	IS 1599	Permanent
257	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Breaking	1 kN to 600 kN	IS 1608 (Part 1)	Permanent
258	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Dimension (Length)	300 mm to 700 mm	IS 1732	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
259	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Elongation %	2 % to 30 %	IS 1608 (Part 1)	Permanent
260	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Mass per Meter	0.1 kg/m to 10 kg/m	IS 1786	Permanent
261	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Rebend test	Qualitative :Mendral Diameter (12,16,24,30,36, 48,60,64,72,80, 96,100,120,125 & 150 mm)	IS 1786	Permanent
262	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Reduction area	1 mm ² to 5000 mm ²	IS 1608 (Part 1)	Permanent
263	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Tensile strength	50 N/mm ² to 1000 N/mm ²	IS 1608 (Part 1)	Permanent
264	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	Yield Stress	50 N/mm ² to 800 N/mm ²	IS 1608 (Part 1)	Permanent
265	Highstrength Deformed Steelbars & Wires for Concrete Reinforcement	TS/TY Ratio	Qualitative	IS 1608 (Part 1)	Permanent
266	Steel Plates/Flats/Angles/Channels/Tees/Beams/Bars	Tensile Strength	50 N/mm ² to 1000 N/mm ²	IS 1608 (Part 1)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
267	Steel Plates/Flats/Angles/Channels/Tees/Beams/Bars	Yield Stress	50 N/mm ² to 800 N/mm ²	IS 1608 (Part 1)	Permanent
268	Steel Plates/Flats/Angles/Channels/Tees/Beams/Bars	Elongation %	2 % to 30 %	IS 1608 (Part 1)	Permanent
269	Steel Plates/Flats/Angles/Channels/Tees/Beams/Bars	Bend test	Qualitative	IS 1599	Permanent
270	HT strand wire	Area	35 mm ² to 1000 mm ²	IS 14268	Permanent
271	HT strand wire	Breaking Load	20 kN to 600 kN	IS 1608 (Part 1)	Permanent
272	HT strand wire	Diameter	10 mm to 50 mm	IS 14268	Permanent
273	HT strand wire	Elongation %	1 % to 20 %	IS 1608 (Part 1)	Permanent
274	HT strand wire	Length of lay	150 mm to 250 mm	IS 14268	Permanent
275	MS Wire	Bend test	Qualitative :Mandrel Diameter (12,16,24,30,36, 48,60,64,72)	IS 1599	Permanent
276	MS Wire	Diameter	0.125 mm to 12.5 mm	IS 280	Permanent
277	MS Wire	Tensile strength	100 Mpa to 1000 Mpa	IS 1608 (Part 1)	Permanent
278	MS Wire	% Elongation	5 % to 50 %	IS 1608(P-1)	Permanent
279	Steeltube (Hollow Section)	Dimension (Length)	1 mm to 5000 mm	IS 1161	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
280	Steeltube (Hollow Section)	Elongation %	5 % to 50 %	IS 1608 (Part 1)	Permanent
281	Steeltube (Hollow Section)	Mass per meter	0.1 kg/m to 30 kg/m	IS 1161	Permanent
282	Steeltube (Hollow Section)	Outside Diameter	10 mm to 500 mm	IS 1161	Permanent
283	Steeltube (Hollow Section)	Tensile strength	200 N/mm ² to 800 N/mm ²	IS 1608 (Part 1)	Permanent
284	Steeltube (Hollow Section)	Yield Stress	200 N/mm ² to 600 N/mm ²	IS 1608 (Part 1)	Permanent
285	Steeltube (Hollow Section)	Wal thickness	0.1 mm to 25 mm	IS 1161	Permanent
286	Coupler	Tensile strength	50 N/mm ² to 900 N/mm ²	IS 16172	Permanent
287	Coupler	Elongation %	2 % to 20 %	IS 16172	Permanent



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