



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name BALAJI SCIENTIFIC LABORATORIES, 2K-18, N.I.T, FARIDABAD, HARYANA , INDIA
 Accreditation Standard ISO/IEC 17025:2017
 Certificate Number TC-5031 Page No. : 1 / 22
 Validity 29/04/2019 to 28/04/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- BUILDING MATERIAL	Aggregates (Coarse/Fine)	Acid soluble chloride	IS 4032: 1985	0.01 % to 1.0 %
2	CHEMICAL- BUILDING MATERIAL	Aggregates (Coarse/Fine)	Alkali aggregate reaction (Chemical method)Dissolved silica	IS 2386 Part-7, Cl. 3.7: 1963	2.0 mmol/L to 200.0 mmol/L
3	CHEMICAL- BUILDING MATERIAL	Aggregates (Coarse/Fine)	Alkali aggregate reaction (Chemical method)Reduction of alkalinity	IS 2386 Part-7, Cl. 3.9: 1963	20.0 mmol/L to 500.0 mmol/L
4	CHEMICAL- BUILDING MATERIAL	Aggregates (Coarse/Fine)	Calcium oxide as CaO	IS 4032: 1985	5.0 % to 60.0 %
5	CHEMICAL- BUILDING MATERIAL	Aggregates (Coarse/Fine)	Chloride as NaCl	IS 4032: 1985	0.01 % to 1.0 %
6	CHEMICAL- BUILDING MATERIAL	Aggregates (Coarse/Fine)	Magnesium oxide as MgO	IS 4032: 1985	1.0 % to 15.0 %
7	CHEMICAL- BUILDING MATERIAL	Aggregates(Coarse/Fine)	Total sulphate as SO ₃	IS 4032: 1985	0.05 % to 2.0 %
8	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Alumina as Al ₂ O ₃	IS 4032: 1985	0.5 % to 30 %
9	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Calcium Oxide as CaO	IS 4032: 1985	35 % to 70 %
10	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Chloride	IS 4032: 1985	0.01 % to 1.0 %
11	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Insoluble residue	IS 4032: 1985	1.0 % to 40 %
12	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Iron oxide as Fe ₂ O ₃	IS 4032: 1985	0.1 % to 10.0 %



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13	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Loss on ignition	IS 4032: 1985	0.1 % to 10.0 %
14	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Magnesia as MgO	IS 4032: 1985	0.1 % to 10 %
15	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Sulphuric anhydride as SO ₃	IS 4032: 1985	0.1 % to 5.0 %
16	CHEMICAL- BUILDING MATERIAL	Cement Concrete/Plaster	Chlorides	IS 14959 Part-1&2: 2001	0.02 % to 5.0 %
17	CHEMICAL- BUILDING MATERIAL	Cement Concrete/Plaster	Sulphate as SO ₃	BS 1881 Part-124: 1988	0.05 % to 5.0 %
18	CHEMICAL- BUILDING MATERIAL	Cement(OPC/PPC)	Silica as SiO ₂	IS 4032: 1985	15 % to 40 %
19	CHEMICAL- BUILDING MATERIAL	Concrete admixture	Ash content	IS 9103: 1999	1.0 % to 20.0 %
20	CHEMICAL- BUILDING MATERIAL	Concrete admixture	Chloride	IS 6925: 1973	0.01 % to 0.5 %
21	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Dry material content	IS 9103: 1999	10.0 % to 60.0 %
22	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	pH	IS 9103: 1999	2.0 to 12.0
23	CHEMICAL- BUILDING MATERIAL	Concrete admixture	Relative density	IS 9103: 1999	1.00 to 1.500
24	CHEMICAL- BUILDING MATERIAL	Fly ash/Calcined clay/Micro silica	Alumina as Al ₂ O ₃	IS 1727: 1967	20.0 % to 50.0 %
25	CHEMICAL- BUILDING MATERIAL	Fly ash/Calcined clay/Micro silica	Calcium oxide as CaO	IS 1727: 2008	1.0 % to 5.0 %
26	CHEMICAL- BUILDING MATERIAL	Fly ash/Calcined clay/Micro silica	Chloride	IS 4032: 1985	0.01 % to 1.0 %



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27	CHEMICAL- BUILDING MATERIAL	Fly ash/Calcined Clay/Micro silica	Iron oxide as Fe ₂ O ₃	IS 1727: 1967	1.0 % to 5.0 %
28	CHEMICAL- BUILDING MATERIAL	Fly ash/calced clay/Micro silica	Loss on ignition	IS 1727: 1967	0.5 % to 10.0 %
29	CHEMICAL- BUILDING MATERIAL	Fly ash/calced clay/Micro silica	Magnesia as MgO	IS 1727: 1967	0.5 % to 5.0 %
30	CHEMICAL- BUILDING MATERIAL	Fly ash/Calcined clay/Micro silica	Moisture content	IS 15388: 2003	0.1 % to 10.0 %
31	CHEMICAL- BUILDING MATERIAL	Fly Ash/Calcined clay/Micro silica	Silica as SiO ₂	IS 1727: 1967	20.0 % to 99.0 %
32	CHEMICAL- BUILDING MATERIAL	Fly ash/calced clay/Micro silica	Sulphuric anhydride as SO ₃	IS 1727: 1967	0.1 % to 10.0 %
33	CHEMICAL- BUILDING MATERIAL	Gypsum/Plaster of paris	Loss on ignition	IS 2547 Part-1: 1976	0.5 % to 25.0 %
34	CHEMICAL- BUILDING MATERIAL	Gypsum/Plaster of paris	Sulphate as SO ₃	IS 1288: 1982	1.0 % to 80.0 %
35	CHEMICAL- BUILDING MATERIAL	Lime stone	Chloride as Cl	IS 1760 Part-5: 1991	0.01 % to 1.0 %
36	CHEMICAL- BUILDING MATERIAL	Lime stone	Silicon dioxide as SiO ₂	IS 1760 Part-2: 1991	0.1 % to 5.0 %
37	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Steel & Aluminium products	Anodic coating	IS 5523: 1983	1.0 µm to 50.0 µm
38	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Steel products	Mass of zinc coating	IS 6745: 1972	5.0 g/m ² to 2000.0 g/m ²



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39	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Steel products	Uniformity of zinc coating	IS 2633: 1986	Qualitative
40	CHEMICAL- METALS & ALLOYS	Mild steel products	Carbon	IS 228 Part-1: 1987	0.05 % to 2.5 %
41	CHEMICAL- METALS & ALLOYS	Mild steel products	Manganese	IS 228 Part-2: 1987	0.1 % to 1.5 %
42	CHEMICAL- METALS & ALLOYS	Mild steel products	Phosphorus	IS 228 Part-3: 1987	0.01 % to 1.0 %
43	CHEMICAL- METALS & ALLOYS	Mild steel products	Silicon	IS 228 Part-8: 1989	0.05 % to 2.0 %
44	CHEMICAL- METALS & ALLOYS	Mild steel products	Sulphur	IS 228 Part-9: 1989	0.01 % to 0.60 %
45	CHEMICAL- METALS & ALLOYS	Stainless steel products	Carbon	IS 228 Part-1: 1987	0.05 % to 2.5 %
46	CHEMICAL- METALS & ALLOYS	Stainless steel products	Chromium	IS 228 Part-6: 1987	0.1 % to 30.0 %
47	CHEMICAL- METALS & ALLOYS	Stainless steel products	Manganese	IS 228 Part-2: 1987	0.1 % to 1.50
48	CHEMICAL- METALS & ALLOYS	Stainless steel products	Molybdenum	IS 228 Part-7: 1990	1.1 % to 7.5 %
49	CHEMICAL- METALS & ALLOYS	Stainless steel products	Nickel	IS 228 Part-5: 1987	0.1 % to 15.0 %
50	CHEMICAL- METALS & ALLOYS	Stainless steel products	Phosphorus	IS 228 Part-3: 1987	0.01 % to 1.0 %
51	CHEMICAL- METALS & ALLOYS	Stainless steel products	Silicon	IS 228 Part-8: 1989	0.05 % to 2.0 %



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52	CHEMICAL- METALS & ALLOYS	Stainless steel products	Sulphur	IS 228 Part-9: 1989	0.01 % to 0.6 %
53	CHEMICAL- SOIL AND ROCK	Soil	Calcium carbonate as CaCO ₃	IS 2720 Part-23: 1976 RA 2006	0.5 % to 50.0 %
54	CHEMICAL- SOIL AND ROCK	Soil	Organic matter	IS 2720 Part-22: 1972 RA 2010	0.1 % to 20 %
55	CHEMICAL- SOIL AND ROCK	Soil	pH Value	IS 2720 Part-26: 1987 RA 2002	2.00 to 12.00
56	CHEMICAL- SOIL AND ROCK	Soil	Total soluble solids	IS 2720 Part-21 (By Gravimetric method): 1983 RA 2001	0.1 % to 20 %
57	CHEMICAL- SOIL AND ROCK	Soil	Total soluble sulphate	IS 2720 Part-27: 1977 RA 2006	0.1 % to 10.0 %
58	CHEMICAL- WATER	Construction water	Acidity	IS 3025 Part-22: 1986	0.1 ml to 10.0 ml
59	CHEMICAL- WATER	Construction water	Alkalinity	IS 3025 Part-23: 1986	0.1 ml to 50.0 ml
60	CHEMICAL- WATER	Construction water	Chloride	IS 3025 Part-32: 1988	5.0 mg/L to 5000 mg/L
61	CHEMICAL- WATER	Construction water	Inorganic solids	IS 3025 Part-18: 1984	10.0 mg/L to 10000.0 mg/L
62	CHEMICAL- WATER	Construction water	Organic solids	IS 3025 Part-18: 1984	10.0 mg/L to 2000.0 mg/L
63	CHEMICAL- WATER	Construction water	pH value	IS 3025 Part-11: 1983	1.00 to 14.00
64	CHEMICAL- WATER	Construction water	Sulphate as SO ₃	IS 3025 Part-24: 1986	10.0 mg/L to 500.0 mg/L
65	CHEMICAL- WATER	Construction water	Suspended matter	IS 3025 Part-17: 1984	5 mg/L to 3000.0 mg/L
66	CHEMICAL- WATER	Drinking water	Calcium as Ca	IS 3025 Part-40: 1991	1.0 mg/L to 250 mg/L
67	CHEMICAL- WATER	Drinking water	Chloride as Cl	IS 3025 Part-32: 1988	2.1 mg/L to 1000 mg/L



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68	CHEMICAL- WATER	Drinking water	Conductivity	IS 3025 Part-14: 1984	1.0 microsiemens/cm2 to 10000.0 microsiemens/cm2
69	CHEMICAL- WATER	Drinking water	Inorganic matter	IS 3025 Part-18: 1984	5.0 mg/L to 5000.0 mg/L
70	CHEMICAL- WATER	Drinking water	Magnesium as Mg	IS 3025 Part-46: 1994	0.5 mg/L to 100 mg/L
71	CHEMICAL- WATER	Drinking water	Odour	IS 3025 Part-5: 1983	Qualitative
72	CHEMICAL- WATER	Drinking water	Organic solid	IS 3025 Part-18: 1984	5.0 mg/L to 1000.0 mg/L
73	CHEMICAL- WATER	Drinking water	pH value	IS 3025 Part-11: 1983	1.00 to 14.00
74	CHEMICAL- WATER	Drinking water	Sulphate as SO4	IS 3025 Part-24: 1986	5.0 mg/L to 1000.0 mg/L
75	CHEMICAL- WATER	Drinking water	Total acidity	IS 3025 Part-22: 1986	2.0 mg/L to 1000.0 mg/L
76	CHEMICAL- WATER	Drinking water	Total Alkalinity	IS 3025 Part-23: 1986	5.0 mg/L to 1000.0 mg/L
77	CHEMICAL- WATER	Drinking water	Total dissolved solids	IS 3025 Part-16: 1984	5.0 mg/L to 10000.0 mg/L
78	CHEMICAL- WATER	Drinking water	Total hardness as CaCO3	IS 3025 Part-21: 2009	1.0 mg/L to 5000.0 mg/L
79	CHEMICAL- WATER	Drinking water	Total suspended matter	IS 3025 Part-17: 1984	5.0 mg/L to 1000.0 mg/L
80	MECHANICAL- BUILDINGS MATERIALS	AAC/ACC/CLC Blocks	Bulk density	IS 6441 Part-1: 1972	200 Kg/m3 to 1250 Kg/m3
81	MECHANICAL- BUILDINGS MATERIALS	AAC/ACC/CLC Blocks	Compressive strength	IS 6441 Part-5: 1972	1.0 N/mm2 to 10.0 N/mm2



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82	MECHANICAL-BUILDINGS MATERIALS	AAC/ACC/CLC Blocks	Dimensions-Length, Width & Height	IS 2185 Part-3: 1984	100 mm to 5000 mm
83	MECHANICAL-BUILDINGS MATERIALS	AAC/ACC/CLC Blocks	Moisture content	IS 6441 Part-1: 1972	0.1 % to 20.0 %
84	MECHANICAL-BUILDINGS MATERIALS	APP Membrane	Thickness	ASTM D 5147: 2008	0.1 mm to 20.0 mm
85	MECHANICAL-BUILDINGS MATERIALS	APP Membrane	Total no. of layers	ASTM D-5147: 2008	1 to 20
86	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration at 25 0C	IS 1203: 1978	20.0 (1/10 mm) to 100.0 (1/10 mm)
87	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening point	IS 1205: 1978	25.0 0C to 80.0 0C
88	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Solubility in trichloroethylene	IS 1216: 1978	90.0 % to 100.0 %
89	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Specific gravity	IS 1202: 1978	0.9 to 1.5
90	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Brick/Fly Ash Brick	Compressive Strength	IS 3495 Part-1: 1992	2.0 N/mm ² to 40.0 N/mm ²
91	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Brick/Fly Ash Brick	water Absorption	IS 3495 Part-3: 1992	0.1 % to 40.0 %



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92	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks/Fly ash Bricks	Efflorescence	IS 3495 Part-3: 1992	Qualitative
93	MECHANICAL-BUILDINGS MATERIALS	Burnt clay building bricks/Fly ash bricks	Dimensions-Length, Width & Height	IS 1077: 1992	1000.0 mm to 5000.0 mm
94	MECHANICAL-BUILDINGS MATERIALS	Burnt clay building bricks/Fly ash bricks	Dimensions-Length, Width & Height	IS 12894: 2002	1000.0 mm to 5000.0 mm
95	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive strength(a) 72±1 h, (b) 168±2 h (c) 672±4 h	IS 4031 Part-6: 1988	10.0 MPa to 75.0 MPa
96	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness	IS 4031 Part-2: 1999	100.0 m2/Kg to 700.0 m2/Kg
97	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Setting time(a) Initial	IS 4031 Part-5: 1988	10.0 min to 300.0 min
98	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Setting time(b) Final	IS 4031 Part-5: 1988	10.0 mm to 900.0 mm
99	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness (b) By autoclave test method	IS 4031 Part-3: 1988	0.02 % to 2.0 %
100	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness) By Le-Chatelier method	IS 4031 Part-3: 1988	0.5 mm to 10.0 mm
101	MECHANICAL-BUILDINGS MATERIALS	Cement concrete flooring tiles	Dimensions-Length, Breadth, Thickness	IS 1237: 2012	10.0 mm to 600.0 mm



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102	MECHANICAL-BUILDINGS MATERIALS	Cement concrete flooring tiles	Flatness	IS 1237: 2012	0.01 mm to 10.0
103	MECHANICAL-BUILDINGS MATERIALS	Cement concrete flooring tiles	Perpendicularity	IS 1237: 2012	0.1 % to 10.0 %
104	MECHANICAL-BUILDINGS MATERIALS	Cement concrete flooring tiles	Straightness	IS 1237: 2012	0.1 % to 5.0 %
105	MECHANICAL-BUILDINGS MATERIALS	Cement concrete flooring tiles	Water absorption	IS 1237: 2012	1.0 % to 25.0 %
106	MECHANICAL-BUILDINGS MATERIALS	Cement concrete flooring tiles	Wet transverse strength	IS 1237: 2012	0.1 N/mm ² to 10.0 N/mm ²
107	MECHANICAL-BUILDINGS MATERIALS	Cement(OPC/PPC)	Consistency	IS 4031 Part-4: 1988	10 % to 35 %
108	MECHANICAL-BUILDINGS MATERIALS	Cement(OPC/PPC)	Density	IS 4031 Part-11: 1988	2.80 g/cc to 3.15 g/cc
109	MECHANICAL-BUILDINGS MATERIALS	Chequered cement concrete tiles	Dimensions-Length, breadth & Thickness	IS 13801: 2013	10.0 mm to 500.0 mm
110	MECHANICAL-BUILDINGS MATERIALS	Chequered cement concrete tiles	Flatness	IS 13801: 2013	0.01 mm to 10.0 mm
111	MECHANICAL-BUILDINGS MATERIALS	Chequered cement concrete tiles	Perpendicularity	IS 13801: 2013	0.01 % to 5.0 %



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112	MECHANICAL-BUILDINGS MATERIALS	Chequered cement concrete tiles	Straightness	IS 13801: 2013	0.01 % to 5.0 %
113	MECHANICAL-BUILDINGS MATERIALS	Chequered cement concrete tiles	Water absorption	IS 13801: 2013	0.1 % to 25.0 %
114	MECHANICAL-BUILDINGS MATERIALS	Chequered cement concrete tiles	Wet transverse strength	IS 13801: 2013	0.5 N/mm ² to 10.0 N/mm ²
115	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Flakiness index	IS 2386 Part-1: 1963	5.0 % to 50.0 %
116	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	10% Fine Value	IS 2386 Part-4: 1963	10.0 kN to 1500.0 kN
117	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS 2386 Part-4: 1963	5.0 % to 45.0 %
118	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregates	Elongation index	IS 2386 Part-1: 1963	5.0 % to 50.0 %
119	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregates	Impact Value	IS 2386 Part-4: 1963	6.0 % to 40.0 %
120	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregates	Soundness	IS 2386 Part-5: 1963	0.5 % to 30.0 %



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121	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregates/Fine aggregates/manufacturing sand/River sand/Coarse sand/Fine sand	Bulk density	IS 2386 Part-3: 1963	1.0 kg/l to 2.0 kg/L
122	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregates/Fine aggregates/manufacturing sand/River sand/Coarse sand/Fine sand	Deleterious materials (ii) Coal and lignite	IS 2386 Part-2: 1963	0.1 % to 5.0 %
123	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregates/Fine aggregates/manufacturing sand/River sand/Coarse sand/Fine sand	Deleterious materials (iii) Clay and lumps	IS 2386 Part-2: 1963	0.1 % to 5.0 %
124	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregates/Fine aggregates/manufacturing sand/River sand/Coarse sand/Fine sand	Deleterious materials(i) material finer than 75 μ IS Sieve	IS 2386 Part-2: 1963	0.1 % to 5.0 %



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125	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregates/Fine aggregates/manufacturing sand/River sand/Coarse sand/Fine sand	Sieve analysis (Sub base Non-bituminous GSB/WMM/WBM, Stone metal 75mm, 63mm, 53mm, 45mm, 37.5mm, 26.5mm, 22.4mm, 19mm, 13.2mm, 11.2mm, 9.5mm, 4.75mm, 2.36mm, 1.18mm, 0.6mm, 0.3mm, 0.15mm, 0.075mm - Coarse & Fine Aggregates, 80mm, 63mm, 50mm, 40mm, 25mm, 20mm, 16mm, 12.5mm, 10mm, 4.75mm, 2.36mm, 6.3mm, 3.35mm, 1.70mm, 0.75mm - Sand 10mm, 4.75mm, 2.36mm, 1.18mm, 0.6mm, 0.3mm, 0.15mm,0.075mm -Soil 4.75mm, 2.36mm, 1.18mm, 0.6mm, 0.3mm, 0.15mm,0.075mm, 0.002mm)	IS 2386 Part-1: 1963	1.0 % to 100.0 %



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126	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregates/Fine aggregates/manufacturing sand/River sand/Coarse sand/Fine sand	Specific gravity	IS 2386 Part-3: 1963	1.500 to 3.500
127	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregates/Fine aggregates/manufacturing sand/River sand/Coarse sand/Fine sand	Water absorption	IS 2386 Part-3: 1963	1.0 % to 10.0 %
128	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver Block/Inter-locking tiles	Compressive strength	IS 15658: 2006	5.0 N/mm ² to 70.0 N/mm ²
129	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver Block/Inter-locking tiles	Water absorption	IS 15658: 2006	1.0 % to 10.0 %
130	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Compressive strength	IS 516: 1959	2.0 N/mm ² to 70.0 N/mm ²
131	MECHANICAL-BUILDINGS MATERIALS	Pressed Ceramic Tiles	Breaking strength	IS 13630 Part-6: 2006	1.0 N to 5000 N
132	MECHANICAL-BUILDINGS MATERIALS	Pressed Ceramic Tiles	Flatness	IS 13630 Part-1: 2006	0.01 % to 10.0 %
133	MECHANICAL-BUILDINGS MATERIALS	Pressed ceramic tiles	Modulus of rupture	IS 13630 Part 6: 2006	1.0 N/mm ² to 100.0 N/mm ²



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134	MECHANICAL-BUILDINGS MATERIALS	Pressed Ceramic Tiles	Perpendicularity/Rectangularity	IS 13630 Part-1: 2006	0.01 % to 5.0 %
135	MECHANICAL-BUILDINGS MATERIALS	Pressed Ceramic Tiles	Scratch Hardness	IS 13630 Part -13: 2006	Qualitative
136	MECHANICAL-BUILDINGS MATERIALS	Pressed Ceramic Tiles	Straightness	IS 13630 Part-1: 2006	0.01 % to 5.0 %
137	MECHANICAL-BUILDINGS MATERIALS	Pressed Ceramic Tiles	Water Absorption	IS 13630 Part-2: 2006	0.01 % to 25 %
138	MECHANICAL-BUILDINGS MATERIALS	Sub Base (Non-Bituminous) GSB, WMM, WBM, Stone Metal	Impact value	IS 2386 Part-4: 1963	6.0 % to 40.0 %
139	MECHANICAL-BUILDINGS MATERIALS	Sub Base (Non-Bituminous) GSB, WMM, WBM, Stone Metal	Grading	IS 2386 Part-1: 1963	1.0 % to 100.0 %
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium section/Products	Elongation at break	IS 1608: 2018	5.0 % to 50.0 %
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium section/Products	Ultimate Tensile Strength (UTS) at Break	IS 1608: 2018	10.0 N/mm ² to 1000.0 N/mm ²



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142	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium section/Products	Weight	IS 1948: 1961	0.1 Kg/m to 10.0 Kg/m
143	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Barbed wire	Mass per meter	IS 6006: 2014	0.10 kg/m to 5.0 kg/m
144	MECHANICAL- MECHANICAL PROPERTIES OF METALS	CI Pipes/Ductile iron pressure pipe & Fittings	Dimension-Barrel wall Thickness	IS 8329: 2000	2.0 mm to 30.0 mm
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	CI Pipes/Ductile iron pressure pipe & Fittings	Dimensions-External diameter	IS 8329: 2000	50.0 mm to 2500.0 mm
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Dowel bar/Structural steel/Crush beam barrier/MS plate	Mass per meter	IS 808: 1989	0.5 kg/m to 100.0 kg/m
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	GI Pipe/MS pipe/Steel tubes	Dimensions-Outside diameter, wall thickness	IS 1239 Part-1: 2004	1.0 mm to 150.0 mm
148	MECHANICAL- MECHANICAL PROPERTIES OF METALS	GI Pipe/MS pipe/Steel tubes	Mass per meter	IS 1239 Part-1: 2004	1.0 kg/m to 50.0 kg/m



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
149	MECHANICAL- MECHANICAL PROPERTIES OF METALS	GI Pipe/MS pipe/Steel tubes/Hollow pipe	Flattening test	IS 2328: 2018	Qualitative
150	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel TMT	Mass per meter	IS 1786: 2008	100.0 g to 10.0 Kg
151	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel TMT	Re-bend	IS 1786: 2008	Qualitative((20mm, 24mm, 28mm, 30mm, 32mm, 36mm, 40mm, 42mm, 48mm, 50mm, 56mm, 60mm, 64mm, 70mm, 72mm, 80mm, 84mm, 86mm, 100mm, 112mm, 120mm, 125mm, 140mm, 150mm, 160mm, 175mm, 180mm, 192mm, 196mm, 200mm))
152	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel TMT/Dowel Bar/Structural steel/ Crush beam barrier/MS Plate/Barbed wire & Strand wire/GI pipe/MS pipe/Steel tubes/Hollow pipe	Elongation at break	IS 1608: 2018	5.0 % to 50.0 %



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153	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel TMT/Dowel Bar/Structural steel/ Crush beam barrier/MS Plate/Barbed wire & Strand wire/GI pipe/MS pipe/Steel tubes/Hollow pipe	Ultimate Tensile strength(UTS) at Break	IS 1608: 2018	100.0 N/mm ² to 1000.0 N/mm ²
154	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel TMT/Dowel bar/Structural steel/Crush beam barrier/MS plate	Bend	IS 1599: 2012	Qualitative((20mm, 24mm, 28mm, 30mm, 32mm, 36mm, 40mm, 42mm, 48mm, 50mm, 56mm, 60mm, 64mm, 70mm, 72mm, 80mm, 84mm, 86mm, 100mm, 112mm, 120mm, 125mm, 140mm, 150mm, 160mm, 175mm, 180mm, 192mm, 196mm, 200mm))
155	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Strand wire	Nominal Mass of the Strand	IS 14268: 2017	0.1 kg/km to 5000.0 kg/km
156	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC pipes for portable water supplies	DimensionsOutside diameter at any point	IS 12235 part 1: 2004	10.0 mm to 3000.0 mm
157	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC pipes for portable water supplies	Moisture absorption	IS 3419: 1988	0.1 % to 5.0 %



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158	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC/CPVC pipe	Density	IS 12235 Part-14, Sec-1: 2004	1.0 g/cc to 2.0 g/cc
159	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC/CPVC pipe	Flattening test	IS 12235 Part-19: 2004	Qualitative
160	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC/CPVC pipe	Tensile strength at break and elongation at break	IS 122235 Part-13: 2004	1.0 N/mm ² to 100.0 N/mm ²
161	MECHANICAL- SOIL AND ROCK	Bitumenious mix	Binder content	IRC-SP-11: 1984	2.0 % to 10.0 %
162	MECHANICAL- SOIL AND ROCK	Bitumenious mix	Density	ASTM D2726: 2017	1.0 g/cc to 3.0 g/cc
163	MECHANICAL- SOIL AND ROCK	Bitumenious mix	Grading	IS 2386 Part-1: 1963	1.0 % to 100.0 %
164	MECHANICAL- SOIL AND ROCK	Marble (Blocks, Slabs & Tiles)	Dimensions-Length, Width, Thickness	IS 1130: 1969	1.0 mm to 5000.0 mm
165	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Apparent Specific gravity	IS 1124: 1974	1.5 to 3.5
166	MECHANICAL- SOIL AND ROCK	Natural Building Stone	True Specific gravity	IS 1122: 1974	2.0 to 4.0
167	MECHANICAL- SOIL AND ROCK	Natural Building Stones	True Specific gravity	IS 1122: 1974	2.0 to 4.0
168	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Water absorption	IS 1124: 1974	0.05 % to 10.0 %
169	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Water absorption	IS 1124: 1974	0.05 % to 2.0 %
170	MECHANICAL- SOIL AND ROCK	Polished Building Stone - Granite	Dimensions-Length, breadth & Thickness	IS 14223 Part-1: 1995	20 mm to 5000.0 mm



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171	MECHANICAL- SOIL AND ROCK	Sand stone (Slabs & Tiles)	Dimensions-Length, Breadth, Thickness	IS 3622: 1977	20.0 mm to 5000 mm
172	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's limit-Plastic limit	IS 2720 part-5: 1985	10.0 % to 60.0 %
173	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's limits-Liquid limit	IS 2720 Part-5: 1985	10.0 % to 100.0 %
174	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio Value	IS 2720 Part-16: 1987	1.0 % to 100.0 %
175	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test-C-value	IS 2720 Part-13: 1987	0 Kg/cm ² to 0.2 Kg/cm ²
176	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test--Phi Value	IS 2720 Part-13: 1987	15.0 Degree to 50.0 Degree
177	MECHANICAL- SOIL AND ROCK	Soil	Free swell index	IS 2720 Part-40: 1977	0.0 % to 60.0 %
178	MECHANICAL- SOIL AND ROCK	Soil	Grain size analysis	IS 2720 Part-2: 1985	1.0 % to 100.0 %
179	MECHANICAL- SOIL AND ROCK	Soil	Moisture content	IS 2720 Part-2: 1985	0.5 % to 50.0 %
180	MECHANICAL- SOIL AND ROCK	Soil	Proctor compaction test- Heavy compaction-MDD	IS 2720 Part-8: 1983	1.2 g/cc to 2.5 g/cc
181	MECHANICAL- SOIL AND ROCK	Soil	Proctor compaction test- Heavy compaction-OMC	IS 2720 Part-8: 1983	3.0 % to 25.0 %
182	MECHANICAL- SOIL AND ROCK	Soil	Proctor compaction test- Light compaction-MDD	IS 2720 Part-7: 1980	1.2 g/cc to 2.5 g/cc



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183	MECHANICAL- SOIL AND ROCK	Soil	Proctor compaction test-Light compactionOMC	IS 2720 Part-7: 1980	3.0 % to 40.0 %
184	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity	IS 2720 Part-3/Sec-1: 1980	2.0 to 3.5
185	MECHANICAL- SOIL AND ROCK	Soil	Water content	IS 2720 Part-2: 1980	0.5 % to 50.0 %
186	MECHANICAL- SOIL AND ROCK	Structural granite	Dimensions-Length, breadth & thickness	IS 3316: 1974	20 mm to 5000.0 mm
187	MECHANICAL- SOIL AND ROCK	Sub Base (Non-Bituminous) GSB, WMM, WBM, Stone Metal	Atterberg's Limits- Plastic limit	IS 2720 Part-5: 1985	1.0 % to 60.0 %
188	MECHANICAL- SOIL AND ROCK	Sub Base (Non-Bituminous) GSB, WMM, WBM, Stone Metal	CBR value	IS 2720 Part-16: 1987	1.0 % to 100.0 %
189	MECHANICAL- SOIL AND ROCK	Sub Base (Non-Bituminous) GSB, WMM, WBM, Stone Metal	Heavy Compaction - Maximum dry density	IS 2720 Part-8: 1983	1.2 g/cc to 3.0 g/cc
190	MECHANICAL- SOIL AND ROCK	Sub Base (Non-Bituminous) GSB, WMM, WBM, Stone Metal	Heavy Compaction- Optimum moisture content	IS 2720 Part-8: 1983	3.0 % to 40.0 %
191	MECHANICAL- SOIL AND ROCK	Sub Base (Non-Bituminous) GSB, WMM, WBM, Stone Metal	Atterberg's Limits- Liquid limit	IS 2720 Part-5: 1985	1.0 % to 100.0 %



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192	MECHANICAL- WOOD AND WOOD PRODUCTS	Door Shutters	Dimensions-Length, Width, Thickness	IS 4020 Part-2: 1998	0.1 mm to 40.0 mm
193	MECHANICAL- WOOD AND WOOD PRODUCTS	Door Shutters	End immersion test	IS 4020 Part-13: 1998	Qualitative
194	MECHANICAL- WOOD AND WOOD PRODUCTS	Door Shutters	Glue adhesion	IS 4020 Part-15: 1998	Qualitative
195	MECHANICAL- WOOD AND WOOD PRODUCTS	Door Shutters	Knife Test	IS 4020 Part-14: 1998	Qualitative
196	MECHANICAL- WOOD AND WOOD PRODUCTS	Door Shutters	Squareness	IS 4020 Part-2: 1998	0.5 mm to 6.0 mm
197	MECHANICAL- WOOD AND WOOD PRODUCTS	Ply board	Dimension(length,width& thickness)	IS;1734 Part-1: 1983	2.0 mm to 50 mm
198	MECHANICAL- WOOD AND WOOD PRODUCTS	Ply board	Moisture content	IS;4020 Part-1: 1983	1 % to 50 %
199	MECHANICAL- WOOD AND WOOD PRODUCTS	Plyboard	Density	IS 1734 Part-1: 1983	600 Kg/m ³ to 1500 Kg/m ³
200	MECHANICAL- WOOD AND WOOD PRODUCTS	Timber/Wood	Moisture content	IS 1708 Part-1: 1986	5.0 % to 50.0 %
201	MECHANICAL- WOOD AND WOOD PRODUCTS	Wood/Timber	Density/Specific gravity	IS 1708 Part-1: 1986	100.0 Kg/m ³ to 1200.0 Kg/m ³



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Site Facility					
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Cement Concrete/ Structural Members	Compressive strength	IS 13311 Part-2: 1992	10.0 N/mm ² to 100.0 N/mm ²
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Cement Concrete/ Structural Members	Ultrasonic Pulse Velocity	IS 13311 Part-1: 1992	1 km/s to 6.0 km/s