National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MILLENNIUM CONSULTANTS & TECHNOCRATS, 540/1, GALI NO. 2, SHANTIPURA, CHRISTIAN GANJ, AJMER, RAJASTHAN, 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	MECHANICAL- BUILDINGS MATERIALS	ACC Block	Block Density	IS 6441 (Part 1)
2	MECHANICAL- BUILDINGS MATERIALS	ACC Block	Compressive Strength	IS 6441 (Part 5)
3	MECHANICAL- BUILDINGS MATERIALS	ACC Block	Dimensions Length x Width x Height	IS 2185 (Part 3)
4	MECHANICAL- BUILDINGS MATERIALS	ACC Block	Moisture Content	IS 6441 (Part 1)
5	MECHANICAL- BUILDINGS MATERIALS	Aluminum & Ferrous Based	Anodic Coating Thickness	IS 1868
6	MECHANICAL- BUILDINGS MATERIALS	Aluminum & Ferrous Based	Powder Coating Thickness	IS 101 (Part 3/Sec 2)
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility test	IS 1208
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration (1/10th mm)	IS 1203
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific gravity	IS 1202
11	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Bitumen Content	ASTM D 2172
12	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Flow value	IS 17127
13	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability of Prepared Moulds	IS 17127
14	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay/Fly Ash)	Compressive Strength	IS 3495 (Part 1)
15	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay/Fly Ash)	Dimensions Length x Width x Height	IS 1077
16	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay/Fly Ash)	Efflorescence	IS 3495 (Part 3)
17	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay/Fly Ash)	Water Absorption	IS 3495 (Part 2)
18	MECHANICAL- BUILDINGS MATERIALS	Building stone	Apparent Porosity	IS 1124

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19	MECHANICAL- BUILDINGS MATERIALS	Building stone	Apparent Specific Gravity	IS 1124
20	MECHANICAL- BUILDINGS MATERIALS	Building stone	Compressive Strength	IS 1121 (Part 1)
21	MECHANICAL- BUILDINGS MATERIALS	Building stone	True Specific Gravity	IS 1122
22	MECHANICAL- BUILDINGS MATERIALS	Building stone	Water absorption	IS 1124
23	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength 3 Day's (72±1h), 7 Day's (168±2h), 28 Days (672±4h)	IS 4031 (Part 6)
24	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Density (Specific Gravity)	IS 4031 (Part 11)
25	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness (By Blaine Air)	IS 4031 (Part 2)
26	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness (By Dry Sieving)	IS 4031 (Part 1)
27	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial & Final Setting Time	IS 4031 (Part 5)
28	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness (Le-Chatelier Method)	IS 4031 (Part 3)
29	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Standard Consistency	IS 4031 (Part 4)
30	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Flatness	IS 1237 Annex B
31	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Perpendicularity	IS 1237 Annex C
32	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Resistance to Wear	IS 1237 Annex G
33	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Straightness	IS 1237 Annex D
34	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Water Absorption	IS 1237 Annex B
35	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Wet Transverse Strength	IS 1237 Annex F
36	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimensions Length x Width x Height	IS 13630 (Part 1)

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37	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Modulus of Rupture	IS 13630 (Part 6)
38	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Scratch Hardness of Surface (Moh's Scale)	IS 13630 (Part 13)
39	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 13630 (Part 2)
40	MECHANICAL- BUILDINGS MATERIALS	Chequered/ Terrazzo Cement Concrete Tiles	Flatness	IS 13801 Annex B
41	MECHANICAL- BUILDINGS MATERIALS	Chequered/ Terrazzo Cement Concrete Tiles	Perpendicularity	IS 13801 Annex C
42	MECHANICAL- BUILDINGS MATERIALS	Chequered/ Terrazzo Cement Concrete Tiles	Resistance to Wear	IS 13801 Annex G
43	MECHANICAL- BUILDINGS MATERIALS	Chequered/ Terrazzo Cement Concrete Tiles	Straightness	IS 13801 Annex D
44	MECHANICAL- BUILDINGS MATERIALS	Chequered/ Terrazzo Cement Concrete Tiles	Water Absorption	IS 13801 Annex E
45	MECHANICAL- BUILDINGS MATERIALS	Chequered/ Terrazzo Cement Concrete Tiles	Wet Transverse Strength	IS 13801 Annex F
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast	10% fine value	IS 2386 (Part 4)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast	Bulk Density	IS 2386 (Part 3)
50	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast	Crushing Value	IS 2386 (Part 4)
51	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast	Deleterious Material Clay Lump	IS 2386 (Part 2)
52	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast	Soundness by MgSO4	IS 2386 (Part 5)
53	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast	Specific Gravity	IS 2386 (Part 3)
54	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast/GSB/WMM/WBM	Impact Value	IS 2386 (Part 4)
55	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast/GSB/WMM/WBM	Sieve Analysis (1 mm to 125 mm)	IS 2386 (Part 1)

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56	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast/GSB/WMM/WBM	Los Angeles Abrasion Value	IS 2386 (Part 4)
57	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast/GSB/WMM/WBM	Water Absorption	IS 2386 (Part 3)
58	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural Strength	IS 516 (Part 1/Sec 1)
59	MECHANICAL- BUILDINGS MATERIALS	Concrete	Water Permeability	IS 3085
60	MECHANICAL- BUILDINGS MATERIALS	Concrete	Workability by Slump Test	IS 1199 (Part 2)
61	MECHANICAL- BUILDINGS MATERIALS	Concrete (for Fresh & Hardened)	Compressive Strength (Cube & Core)	IS 516
62	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Dimension & Squareness Height x Width x Thickness	IS 4020 (Part 2)
63	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	End Immersion Test	IS 4020 (Part 13)
64	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Glue Adhesion	IS 4020 (Part 15)
65	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Knife Test	IS 4020 (Part 14)
66	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Crusher Stone Dust/Natural Sand/M Sand	Bulk Density	IS 2386 (Part 3)
67	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Crusher Stone Dust/Natural Sand/M Sand	Bulking of Sand	IS 2386 (Part 3)
68	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Crusher Stone Dust/Natural Sand/M Sand	Deleterious Material Clay Lumps	IS 2386 (Part 2)
69	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Crusher Stone Dust/Natural Sand/M Sand	Grading (Sieve Analysis) (10 mm to 150 micron)	IS 2386 (Part 1)
70	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Crusher Stone Dust/Natural Sand/M Sand	Materials Finer than 75 micron	IS 2386 (Part 1)
71	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Crusher Stone Dust/Natural Sand/M Sand	Silt Content	CPWD (Vol-1) Clause – 3.1.3.2 (Appendix – C)
72	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Crusher Stone Dust/Natural Sand/M Sand	Soundness by MgSO4	IS 2386 (Part 5)
73	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Crusher Stone Dust/Natural Sand/M Sand	Specific Gravity	IS 2386 (Part 3)
74	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Crusher Stone Dust/Natural Sand/M Sand	Water Absorption	IS 2386 (Part 3)

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75	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Residue on 45 micron	IS 1727
76	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Soundness (Le-Chatelier Method)	IS 4031 (Part 1)
77	MECHANICAL- BUILDINGS MATERIALS	Particle Board for Door & Windows	Density	IS 2380 (Part 3)
78	MECHANICAL- BUILDINGS MATERIALS	Particle Board for Door & Windows	Moisture Content	IS 2380 (Part 3)
79	MECHANICAL- BUILDINGS MATERIALS	Particle Board for Door & Windows	Static Bending Strength	IS 2380 (Part 4)
80	MECHANICAL- BUILDINGS MATERIALS	Particle Board for Door & Windows	Tensile Strength Parallel To Surface	IS 2380 (Part 6)
81	MECHANICAL- BUILDINGS MATERIALS	Particle Board for Door & Windows	Water Absorption	IS 2380 (Part 16)
82	MECHANICAL- BUILDINGS MATERIALS	Paver Block/Interlocking Tile	Abrasion Resistance Test	IS 15658: Annex E
83	MECHANICAL- BUILDINGS MATERIALS	Paver Block/Interlocking Tile	Compressive Strength	IS 15658 Annex D
84	MECHANICAL- BUILDINGS MATERIALS	Paver Block/Interlocking Tile	Dimensions Length x Width x Height	IS 15658 Annex B
85	MECHANICAL- BUILDINGS MATERIALS	Paver Block/Interlocking Tile	Flexural Strength	IS 15658: Annex G
86	MECHANICAL- BUILDINGS MATERIALS	Paver Block/Interlocking Tile	Visual Inspection	IS 15658: Clause 7.1
87	MECHANICAL- BUILDINGS MATERIALS	Paver Block/Interlocking Tile	Water Absorption	IS 15658 Annex C
88	MECHANICAL- BUILDINGS MATERIALS	Plywood for Door & Windows	Density	IS 1734 (Part 1)
89	MECHANICAL- BUILDINGS MATERIALS	Plywood for Door & Windows	Moisture Content	IS 1734 (Part 1)
90	MECHANICAL- BUILDINGS MATERIALS	Plywood for Door & Windows	Resistance to dry heat	IS 1734 (Part 2)
91	MECHANICAL- BUILDINGS MATERIALS	Steel Bars	% Elongation	IS 1608 (Part 1)
92	MECHANICAL- BUILDINGS MATERIALS	Steel Bars	Bend test	IS 1599
93	MECHANICAL- BUILDINGS MATERIALS	Steel Bars	Nominal mass/weight per meter	IS 1786

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94	MECHANICAL- BUILDINGS MATERIALS	Steel Bars	Re-bend test	IS 1786
95	MECHANICAL- BUILDINGS MATERIALS	Steel Bars	TS/YS Ratio	IS 1786
96	MECHANICAL- BUILDINGS MATERIALS	Steel Bars	Ultimate tensile strength	IS 1608 (Part 1)
97	MECHANICAL- BUILDINGS MATERIALS	Steel Bars	X Sectional area	IS 1786
98	MECHANICAL- BUILDINGS MATERIALS	Steel Bars	Yield stress/0.2 % Proof stress	IS 1608 (Part 1)
99	MECHANICAL- BUILDINGS MATERIALS	Structural Steel	% Elongation	IS 1608 (Part 1)
100	MECHANICAL- BUILDINGS MATERIALS	Structural Steel	Bend test	IS 1599
101	MECHANICAL- BUILDINGS MATERIALS	Structural Steel	Re-bend test	IS 1786
102	MECHANICAL- BUILDINGS MATERIALS	Structural Steel	Ultimate tensile strength	IS 1608 (Part 1)
103	MECHANICAL- BUILDINGS MATERIALS	Structural Steel	Unit weight	IS 808, IS 1730, IS 4923
104	MECHANICAL- BUILDINGS MATERIALS	Structural Steel	Yield stress	IS 1608 (Part 1)
105	MECHANICAL- BUILDINGS MATERIALS	Wood/Timber	Moisture content	IS 1708 (Part 1)
106	MECHANICAL- BUILDINGS MATERIALS	Wood/Timber	Specific gravity	IS 1708 (Part 2)
107	MECHANICAL- SOIL AND ROCK	Rock	Core Recovery	IS 11315 (Part 11)
108	MECHANICAL- SOIL AND ROCK	Rock	Point load strength index	IS 8764
109	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030
110	MECHANICAL- SOIL AND ROCK	Rock	Rock Quality Designation (RQD)	IS 11315 (Part 11)
111	MECHANICAL- SOIL AND ROCK	Rock	Specific Gravity	IS 13030
112	MECHANICAL- SOIL AND ROCK	Rock	Unconfined compressive strength test	IS 9143

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113	MECHANICAL- SOIL AND ROCK	Soil	Consolidation test	IS 2720 (Part 15)
114	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear	IS 2720 (Part 13)
115	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
116	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (by Wet & Dry Sieve Analysis) 100 mm to 75 micron Sieve	IS 2720 (Part 4)
117	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Hydrometer Method) (Sieve Size: 75 micron to 100mm)	IS 2720 (Part 4)
118	MECHANICAL- SOIL AND ROCK	Soil	Permeability	IS 2720 (Part 36)
119	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3)
120	MECHANICAL- SOIL AND ROCK	Soil	Unconfined compressive strength	IS 2720 (Part 10)
121	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part 2)
122	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Atterberg’s Limit (Liquid Limit)	IS 2720 (Part 5)
123	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Atterberg’s Limit (Plastic Limit)	IS 2720 (Part 5)
124	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	California Bearing Ratio (CBR)	IS 2720 (Part 16)
125	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Heavy compaction (Maximum Dry Density)	IS 2720 (Part 8)
126	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Heavy compaction (Optimum Moisture Content)	IS 2720 (Part 8)
127	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Light Compaction (Maximum Dry Density)	IS 2720 (Part 7)
128	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Light Compaction (Optimum Moisture Content)	IS 2720 (Part 7)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Clay, soil & weathered rock	Standard Penetration Test	IS 2131
2	MECHANICAL- SOIL AND ROCK	Soil/Rock	Plate load test	IS 1888