National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : REE TECHNOLOGY (TESTING AND CALIBRATION LAB), PLOT NO. 76, MAHARAJA SURAJMAL COLONY, MUNGASKA, ALWAR, 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	AAC Blocks	Dimension (Height)	IS 2185 (Part 3)
2	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimension (Width)	IS 2185 (Part 3)
3	MECHANICAL- BUILDINGS MATERIALS	ACC Blocks	Block Density (Unit Weight)	IS 6441 (Part 1)
4	MECHANICAL- BUILDINGS MATERIALS	ACC Blocks	Compressive Strength	IS 6441 (Part 5)
5	MECHANICAL- BUILDINGS MATERIALS	ACC Blocks	Dimension (Length)	IS 2185 (Part 3)
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Industrial/Paving/Polymer Modified/Coal Tar)	Fire Point	IS 1448 (Part 69)
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Industrial/Paving/Polymer Modified/Coal Tar)	Ductility	IS 1208
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Industrial/Paving/Polymer Modified/Coal Tar)	Flash Point	IS 1448 (Part 69)
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Industrial/Paving/Polymer Modified/Coal Tar)	Penetration	IS 1203
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Industrial/Paving/Polymer Modified/Coal Tar)	Softening Point	IS 1205
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Industrial/Paving/Polymer Modified/Coal Tar)	Specific Gravity	IS 1202
12	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/Core	Bitumen Content	ASTM D2172
13	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Standard Consistency	IS 4031 (Part 4)
14	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Density	IS 4031 (Part 11)
15	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by Dry Sieving Method (% of Residue)	IS 4031 (Part 1)
16	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness By Le-Chatelier Method	IS 4031 (Part 3)
17	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part 6)
18	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting Time	IS 4031 (Part 5)

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19	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	IS 4031 (Part 5)
20	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tile/Vitrified Tiles	Dimension (Thickness)	IS 13630 (Part 1)
21	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/Vitrified Tiles	Dimension (Length)	IS 13630 (Part 1)
22	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/Vitrified Tiles	Dimension (Width)	IS 13630 (Part 1)
23	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/Vitrified Tiles	Scratch Hardness of Surface (Moh's Scale)	IS 13630 (Part 13)
24	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/Vitrified Tiles	Water Absorption	IS 13630 (Part 2)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 4)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Gradation) (80 mm to 2.36 mm)	IS 2386 (Part 1)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness ($MgSO_4$ & Na_2SO_4)	IS 2386 (Part 5)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping Value	IS 6241
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
36	MECHANICAL- BUILDINGS MATERIALS	Common Building Bricks (Heavy Duty/ Burnt Clay Building Bricks/ Pulverized Fuel Ash-Lime Bricks)	Compressive Strength	IS 3495 (Part 1)
37	MECHANICAL- BUILDINGS MATERIALS	Common Building Bricks (Heavy Duty/ Burnt Clay Building Bricks/ Pulverized Fuel Ash-Lime Bricks)	Water Absorption	IS 3495 (Part 2)

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38	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension (Height)	IS 1077
39	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension (Length)	IS 1077
40	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension (Width)	IS 1077
41	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516 (Part 1/Section 1)
42	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Compressive Strength	IS 15658
43	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Dimension (Length)	IS 15658
44	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Dimension (Thickness)	IS 15658
45	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Dimension (Width)	IS 15658
46	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Water Absorption	IS 15658
47	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
48	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking of Sand	IS 2386 (Part 3)
49	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Clay Lumps	IS 2386 (Part 2)
50	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Materials Finer than 75 µm	IS 2386 (Part 1)
51	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Gradation) (0.150 mm to 10 mm)	IS 2386 (Part 1)
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content	CPWD Specification (Volume I/Appendix C/Clause 3.1.3.2)
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness (MgSO4 & Na2SO4)	IS 2386 (Part 5)
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
56	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Residue on 45 µm IS Sieve	IS 1727

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57	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Soundness By Le-Chatelier Method	IS 4031 (Part 3)
58	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Gravity	IS 1727
59	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Consistency by Slump Test	IS 1199 (Part 2)
60	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Density	IS 516 (Part 2/Section 1)
61	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Core	Compressive Strength	IS 516 (Part 4)
62	MECHANICAL- BUILDINGS MATERIALS	Heavy Duty Bricks	Bulk Density	IS 2180
63	MECHANICAL- BUILDINGS MATERIALS	Heavy Duty Bricks	Dimension (Height)	IS 2180
64	MECHANICAL- BUILDINGS MATERIALS	Heavy Duty Bricks	Dimension (Length)	IS 2180
65	MECHANICAL- BUILDINGS MATERIALS	Heavy Duty Bricks	Dimension (Width)	IS 2180
66	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash-Lime Bricks	Dimension (Height)	IS 12894
67	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash-Lime Bricks	Dimension (Length)	IS 12894
68	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash-Lime Bricks	Dimension (Width)	IS 12894
69	MECHANICAL- SOIL AND ROCK	Rock	Bulk Density	IS 13030
70	MECHANICAL- SOIL AND ROCK	Rock	Density	IS 13030
71	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030
72	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
73	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
74	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR) (Soaked & Un-Soaked)	IS 2720 (Part 16)
75	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle) (UU & CU)	IS 2720 (Part 13)

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76	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion C) (UU & CU)	IS 2720 (Part 13)
77	MECHANICAL- SOIL AND ROCK	Soil	Dry Sieve Analysis	IS 2720 (Part 4)
78	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
79	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Hydrometer Method) (0.075 mm to 2 mm)	IS 2720 (Part 4)
80	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part 8)
81	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part 8)
82	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 (Part 7)
83	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part 7)
84	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
85	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
86	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
87	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/Section 1)
88	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength (UCS)	IS 2720 (Part 10)
89	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part 2)
90	MECHANICAL- SOIL AND ROCK	Soil	Wet Sieve Analysis	IS 2720 (Part 4)
91	MECHANICAL- SOIL AND ROCK	Stone	Compressive Strength	IS 1121 (Part 1)
92	MECHANICAL- SOIL AND ROCK	Stone	Dimensions	IS 1130
93	MECHANICAL- SOIL AND ROCK	Stone	Porosity	IS 1124

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94	MECHANICAL- SOIL AND ROCK	Stone	Scratch Hardness (Mho's Scale)	IS 13630 (Part 13)
95	MECHANICAL- SOIL AND ROCK	Stone	True Specific Gravity	IS 1122
96	MECHANICAL- SOIL AND ROCK	Stone	Water Absorption	IS 1124

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Core Cutter Method	IS 2720 (Part 29)
2	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Sand Replacement Method	IS 2720 (Part 28)
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforcement Concrete Structure	Ultrasonic Pulse Velocity Test	IS 516 (Part 5/Section 1)
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforcement Concrete Structure	Rebound Hammer Test (Compressive Strength)	IS 516 (Part 5/Section 4)