National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : EARTH MATERIAL & ENGINEERING SOLUTION LABORATORY, HOUSE NO. 4 VIDHYA SAGAR DHAM, KHEJDA ROAD, MAHOLI, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 20/02/2022 to 19/02/2024 **Last Amended on** 27/03/2022

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	Autoclaved Cellular concrete	Bulk Density	IS 6621 Part 1
2	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular concrete	Compressive Strength	IS 6441 Part 5
3	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular concrete	Dimension (Height)	IS 2185 Part 3
4	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular concrete	Dimension (Length)	IS 2185 Part 3
5	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular concrete	Dimension (Width)	IS 2185 Part 3
6	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular concrete	Moisture Content	IS 6441 Part 1
7	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular concrete	Unit Weight	IS 6441 Part 1
8	MECHANICAL- BUILDINGS MATERIALS	Bentonite	Fineness	IS 6186
9	MECHANICAL- BUILDINGS MATERIALS	Bentonite	Moisture Content	IS 6186
10	MECHANICAL- BUILDINGS MATERIALS	Bentonite	Sand Content	IS 6186
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 micron	IS 8887
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen For Paving & Industrial	Fire Point	IS 1209
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen For Paving & Industrial	Binder Content	IRC SP-11
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen For Paving & Industrial	Flash Point	IS 1209
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen For Paving & Industrial	Penetration	IS 1203
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen For Paving & Industrial	Softening point	IS 1205
17	MECHANICAL- BUILDINGS MATERIALS	Brick	Compressive Strength	IS 3495 (Part 1)
18	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (Height)	IS 13757

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19	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (Length)	IS 13757
20	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (Width)	IS 13757
21	MECHANICAL- BUILDINGS MATERIALS	Brick	Efflorescence	IS 3495 Part 3
22	MECHANICAL- BUILDINGS MATERIALS	Brick	Water Absorption	IS 3495 (Part 2)
23	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength	IS 4031 (Part 6)
24	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Final Setting Time	IS 4031 (Part 5)
25	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by Dry Sieving	IS 4031 (Part 1)
26	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial Setting Time	IS 4031 (Part 5)
27	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Le-Chateliers Method	IS 4031 (Part 3)
28	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Standard Consistency	IS 4031 (Part 4)
29	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tile	Water Absorption	IS 1237
30	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	DETERMINATION OF PERPENDICULARITY	IS 13801
31	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	FLATNESS OF TILE SURFACE	IS 13801
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material and organic Impurities	IS 2386 Part 2
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10 % FIne Value	IS 2386 Part 4
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS 2386 (Part 4)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2836 (Part 3)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (4.75 to 100mm)	IS 2386 (Part 1)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by magnesium Sulphate	IS 2386 Part 5
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Sodium Sulphate	IS 2386 Part 5
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
44	MECHANICAL- BUILDINGS MATERIALS	Door	Dimension (Length)	IS 4020 Part 2
45	MECHANICAL- BUILDINGS MATERIALS	Door	Dimension (Thickness)	IS 4020 Part 2
46	MECHANICAL- BUILDINGS MATERIALS	Door	Dimension (Width)	IS 4020 Part 2
47	MECHANICAL- BUILDINGS MATERIALS	Door	End Immersion Test	IS 4020 Part 13
48	MECHANICAL- BUILDINGS MATERIALS	Door	Knife Test	IS 4020 Part 14
49	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious Material and Organic Impurities	IS 2386 Part 2
50	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
51	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking of Sand	IS 2386 (Part 3)
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Fineness Modulus	IS 6461 Part 1
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75µm	IS 2386 Part 1
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Percentage of Voids	IS 2386 Part 3
55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (4.75 to 100 mm)	IS 2386 (Part 1)
56	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content	CPWD Specification Vol-1

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57	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Magnesium Sulphate	IS 2386 Part 5
58	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Sodium Sulphate	IS 2386 Part 5
59	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
60	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Surface Moisture Content	IS 2386 (Part 3)
61	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
62	MECHANICAL- BUILDINGS MATERIALS	Fly Ash (Pozzolana)	Fineness By Dry Sieving	IS 1727
63	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS 1199
64	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Core Compressive Strength	IS 516
65	MECHANICAL- BUILDINGS MATERIALS	Hardness Concrete	Compressive Strength - Cube	IS 516
66	MECHANICAL- BUILDINGS MATERIALS	PRECAST CONCRETE KERBS	Water Absorption	IS 5758
67	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Dimension (Width)	IS 15658
68	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Compressive Strength	IS 15658
69	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Dimension (Length)	IS 15656
70	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Dimension (Thickness)	IS 15658
71	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Visual Inspection	IS 15658
72	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Water Absorption	IS 15658
73	MECHANICAL- BUILDINGS MATERIALS	RECAST CONCRETE KERBS	Dimension	IS 5758
74	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Bend Test	IS 1599
75	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Elongation	IS 1608 Part 01

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76	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Mass per meter	IS 1786
77	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Re Bend	IS 1786
78	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Tensile Strength	IS 1608 Part 1
79	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield Stress	IS 1608 Part 1
80	MECHANICAL- BUILDINGS MATERIALS	Vetrified /Ceramic Tiles	Dimension (Width)	IS 13630 Part 1
81	MECHANICAL- BUILDINGS MATERIALS	Vitrified /Ceramic Tiles	Dimension (thickness)	IS 13630 Part 1
82	MECHANICAL- BUILDINGS MATERIALS	Vitrified /Ceramic Tiles	Dimension (Length)	IS 13630 Part 1
83	MECHANICAL- BUILDINGS MATERIALS	Vitrified /Ceramic Tiles	Water Absorption	IS 13630 Part 2
84	MECHANICAL- SOIL AND ROCK	Cement Concrete Concrete (PQC)	Sieve Analysis	IS 2386 Part 1
85	MECHANICAL- SOIL AND ROCK	Dense Graded Bituminous Macadam	Sieve Analysis	IS 2386 Part 1
86	MECHANICAL- SOIL AND ROCK	Marble	Dimension (Length)	IS 1130
87	MECHANICAL- SOIL AND ROCK	Marble	Dimension (Thickness)	IS 1130
88	MECHANICAL- SOIL AND ROCK	Marble	Dimension (Width)	IS 1130
89	MECHANICAL- SOIL AND ROCK	Marble	Moisture Absorption	IS 1124
90	MECHANICAL- SOIL AND ROCK	Marble	Porosity	IS 1124
91	MECHANICAL- SOIL AND ROCK	Marble	Specific Gravity	IS 1122
92	MECHANICAL- SOIL AND ROCK	Rock	Specific Gravity	IS 1122
93	MECHANICAL- SOIL AND ROCK	Rock	Unconfined compressive Strength	IS 9143
94	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030

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95	MECHANICAL- SOIL AND ROCK	Soil	CBR	IS 2720 Part 16
96	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (Angle)	IS 2720 Part 13
97	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Cohesion Value	IS 2720 Part 13
98	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
99	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (0.075 to 4.75 mm) Range upto 100% MU	IS 2720 (Part 4)
100	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction -Maximum Dry Density	IS 2720 Part 8
101	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction-Optimum Moisture Content	IS 2720 Part 8
102	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Maximum Dry Density	IS 27201 (Part 7)
103	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Optimum Moisture Content	IS 2720 (Part 7)
104	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
105	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
106	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
107	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 Part 2
108	MECHANICAL- SOIL AND ROCK	SUB BASE (Non-Bituminous) GSB,WMM,WBM,Stone Metal	Liquid Limit	IS 2720 Part 5
109	MECHANICAL- SOIL AND ROCK	SUB BASE (Non-Bituminous) GSB,WMM,WBM,Stone Metal	CBR	IS 2720 Part 16
110	MECHANICAL- SOIL AND ROCK	SUB BASE (Non-Bituminous) GSB,WMM,WBM,Stone Metal	Heavy Compaction (MDD)	IS 2720 Part 8
111	MECHANICAL- SOIL AND ROCK	SUB BASE (Non-Bituminous) GSB,WMM,WBM,Stone Metal	Impact Value	IS 2386 Part 4
112	MECHANICAL- SOIL AND ROCK	SUB BASE (Non-Bituminous) GSB,WMM,WBM,Stone Metal	Optimum Moisture Content (OMC)	IS 2720 Part-8

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113	MECHANICAL- SOIL AND ROCK	SUB BASE (Non-Bituminous) GSB,WMM,WBM,Stone Metal	Plastic Limit	IS 2720 Part 5
114	MECHANICAL- SOIL AND ROCK	SUB BASE (Non-Bituminous) GSB,WMM,WBM,Stone Metal	Sieve Analysis	IS 2386 Part 1

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Site Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS 1199
2	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Sand Replacement - Small Pouring Cylinder Range 1.40 to 2.21 g/cc MU	IS 2720 (Part 28)
3	MECHANICAL- SOIL AND ROCK	Soil Testing Field	Field Dry Density By Core Cutter Method	IS 2720 Part 29
4	MECHANICAL- SOIL AND ROCK	Soil Testing Field	Field Dry Density By Sand Replacement Method	IS 2720 Part 28