National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : METASOIL ENGINEERING SERVICES, A-2 SHIVNAGAR ASSOCIATES, NAVSARI, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 22/04/2022 to 21/04/2024 **Last Amended on** -

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	Autoclave Cellular (Aerated) Concrete Blocks	Block Density	IS 2185 (Part 3)
2	MECHANICAL- BUILDINGS MATERIALS	Autoclave Cellular (Aerated) Concrete Blocks	Compressive Strength	IS 6441 (Part 5):
3	MECHANICAL- BUILDINGS MATERIALS	Autoclave Cellular (Aerated) Concrete Blocks	Dimensions	IS 2185 (Part 3):
4	MECHANICAL- BUILDINGS MATERIALS	Autoclave Cellular (Aerated) Concrete Blocks	Dimensions (Length)	IS 2185 (Part 3):
5	MECHANICAL- BUILDINGS MATERIALS	Autoclave Cellular (Aerated) Concrete Blocks	Dimensions (Width)	IS 2185 (Part 3):
6	MECHANICAL- BUILDINGS MATERIALS	Beam	Flexural Strength	IS 516- P-1, Sec-1
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Part2):
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1206 (Part3):
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1212
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Flow	ASTM D 6927
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Marshall Stability	ASTM D 6927
16	MECHANICAL- BUILDINGS MATERIALS	Bitumenous mix	Binder Content	IRC SP 11, Clause C, Appendix 5
17	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/ Fly Ash Building Brick	Dimensions (Height)	IS 1077:
18	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/ Fly Ash Building Brick	Dimensions (Length)	IS 1077:

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19	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/ Fly Ash Building Brick	Dimensions (Width)	IS 1077
20	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/ Fly Ash Building Brick	Efflorescence	IS 3495 (Part 3):
21	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/Fly Ash Building Brick	Compressive Strength	IS 3495 (Part 1)
22	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/Fly Ash Building Brick	Water Absorption	IS 3495 (Part 2)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 4):
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value	IS 2386 (Part 4):
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3):
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4):
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1):
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Finer than 75 Micron	IS 2386 (Part 1):
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Gradation- Sieve Analysis	IS 2386 (Part 1):
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4):
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2SO4	IS 2386 (Part 5):
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by MgSO4	IS 2386 (Part 5):
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Striping Value	IS 6241
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3):
37	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516-P-1, Sec-1

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38	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3):
39	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Finer than 75 Micron	IS 2386 (Part 1)
40	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Gradation)	IS 2386 (Part 1):
41	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Na2SO4	IS 2386 (Part 5)
42	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by MgSO4	IS 2386 (Part 5):
43	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
44	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3):
45	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS 1199
46	MECHANICAL- BUILDINGS MATERIALS	OPC	Fineness by air Permeability (only for OPC)	IS 4031 (Part 2):
47	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Compressive Strength	IS 4031 (Part 6):
48	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Density	IS 4031 (Part 11):
49	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Fineness by Dry Sieving	IS 4031 (Part 1):
50	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Setting Time- Final	IS 4031 (Part 5)
51	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Setting Time- Initial	IS 4031 (Part 5)
52	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Soundness- Le Chatelier	IS 4031 (Part 3)
53	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Standard Consistency	IS 4031 (Part 4)
54	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Abrasion Resistance	IS 15658:
55	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Compressive Strength	IS 15658:
56	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Water Absorption	IS 15658

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57	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Apparent Specific Gravity	IS 1124
58	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Compressive Strength	IS 1121 (Part 1)
59	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Water Absorption	IS 1124
60	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720 (Part 16):
61	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Cc	IS 2720 (Part 15):
62	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Pc	IS 2720 (Part 15):
63	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40):
64	MECHANICAL- SOIL AND ROCK	Soil	Gradation	IS 2720 (Part 4):
65	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part 8):
66	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part 8):
67	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer Test	IS 2720 (Part 4):
68	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 (Part 5):
69	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part 5):
70	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5):
71	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2):
72	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5):
73	MECHANICAL- SOIL AND ROCK	Soil	Shear Strength by Tri-axial (Angle of friction)	IS 2720 (Part 11):
74	MECHANICAL- SOIL AND ROCK	Soil	Shear Strength by Tri-axial (Cohesion)	IS 2720 (Part 11):
75	MECHANICAL- SOIL AND ROCK	Soil	Shear strength Direct Shear Test (Angle of friction)	IS 2720 (Part 13):

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76	MECHANICAL- SOIL AND ROCK	Soil	Shear strength Direct Shear Test (Cohesion)	IS 2720 (Part 13):
77	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6):
78	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity-	IS 2720 (Part 3/Sec I)
79	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part 41):
80	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (Part 10):

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Dry Density of soil -by Core Cutter	IS 2720 (Part 29):
2	MECHANICAL- SOIL AND ROCK	Soil	Dry Density of soil -by Sand Replacement	IS 2720 (Part 28):
3	MECHANICAL- SOIL AND ROCK	Soil	Water Content -by Rapid Moisture Meter	IS 12175
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Rebound Hammer	IS 516 Part 5, Sec- 4
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Ultrasonic Pulse Velocity	IS 516: Part-5, Sec-1