National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : M K SOIL TESTING LABORATORY PRIVATE LIMITED, SURVEY NO. 4/4, GROUND FLOOR, BHARTI HOUSE, BODAKDEV, AHMEDABAD, GUJARAT, 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	Bitumen	Softening Point	IS 1205
2	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	10% Fines Value	IS 2386 (Part 4)
3	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Abrasion value (by Los angeles)	IS 2386 (Part 4)
4	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Bulk Density	IS 2386 (Part 3)
5	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Crushing value	IS 2386 (Part 4)
6	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Elongation index	IS 2386 (Part 1)
7	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Flakiness index	IS 2386 (Part 1)
8	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Impact value	IS 2386 (Part 4)
9	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Sieve analysis / gradation (125 mm to 0.15 mm)	IS 2386 (Part 1)
10	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Specific gravity	IS 2386 (Part 3)
11	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Bulk Density	IS 2386 (Part 3)
12	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Material finer than 75 micron	IS 2386 (Part 1)
13	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Sieve analysis / gradation (10 mm to 0.15 mm)	IS 2386 (Part 1)
14	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Specific gravity	IS 2386 (Part 3)
15	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Water absorption	IS 2386 (Part 3)
16	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Water absorption	IS 2386 (Part 3)
17	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Bulk Density	IS 6441 (Part 1)
18	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Compressive strength	IS 6441 (Part 5)

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19	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Dimensions : Breadth	IS 2185 (Part 3)
20	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Dimensions : Height	IS 2185 (Part 3)
21	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Dimensions : Length	IS 2185 (Part 3)
22	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Moisture content	IS 6441 (Part 1)
23	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
24	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
25	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
26	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay Brick and Fly Ash Brick)	Compressive strength	IS 3495 (Part 1)
27	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay Brick and Fly Ash Brick)	Dimension : Height	IS 1077
28	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay Brick and Fly Ash Brick)	Dimension : Length	IS 1077
29	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay Brick and Fly Ash Brick)	Dimension : Width	IS 1077
30	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay Brick and Fly Ash Brick)	Efflorescence test	IS 3495 (Part 3)
31	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay Brick and Fly Ash Brick)	Water absorption	IS 3495 (Part 2)
32	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC and PPC)	Compressive strength	IS 4031 (Part 6)
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC and PPC)	Consistency	IS 4031 (Part 4)
34	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC and PPC)	Density	IS 4031 (Part 11)
35	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC and PPC)	Final setting time	IS 4031 (Part 5)
36	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC and PPC)	Fineness by blaine air permeability	IS 4031 (Part 2)
37	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC and PPC)	Initial setting time	IS 4031 (Part 5)

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38	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC and PPC)	Soundness by Le-chatelier methods	IS 4031 (Part 3)
39	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Bulk Density	IS 13630 (Part 2)
40	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimensions - Length	IS 13630 (Part 1)
41	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimensions - Thickness	IS 13630 (Part 1)
42	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimensions - Width	IS 13630 (Part 1)
43	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Water absorption	IS 13630 (Part 2)
44	MECHANICAL- BUILDINGS MATERIALS	Compressive strength of concrete cube by accelerated curing	Compressive strength of concrete cube	IS 9013
45	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive strength	IS 516 P1
46	MECHANICAL- BUILDINGS MATERIALS	Concrete	Density	IS 516 (Part 2, Sec 1)
47	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural strength of beam	IS 516 P1
48	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength of Core	IS 516 (Part 4)
49	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness by sieving	IS 1727
50	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Specific gravity	IS 1727
51	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump test	IS 1199 (Part 2)
52	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Weight per cubic meter	IS 1199 (Part 3)
53	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Abrasion Resistance	IS 15658
54	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive strength	IS 15658
55	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension - Thickness	IS 15658
56	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension, Width	IS 15658

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57	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions, thickness of wearing layer	IS 15658
58	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions,Length	IS 15658
59	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water absorption	IS 15658
60	MECHANICAL- BUILDINGS MATERIALS	Rapid chloride permeability test	Rapid chloride permeability test of concrete (Charge Passed)	ASTM C 1202
61	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HSD steel Bars and wire (Diameter 8 to 32 mm)	% Elongation	IS 1608 (Part 1)
62	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HSD steel Bars and wire (Diameter 8 to 32 mm)	Bend test	IS 1599
63	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HSD steel Bars and wire (Diameter 8 to 32 mm)	Re bend Test	IS 1786
64	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HSD steel Bars and wire (Diameter 8 to 32 mm)	Tensile strength	IS 1608 (Part 1)
65	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HSD steel Bars and wire (Diameter 8 to 32 mm)	Weight per meter	IS 1786
66	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HSD steel Bars and wire (Diameter 8 to 32 mm)	Yield stress	IS 1608 (Part 1)
67	MECHANICAL- SOIL AND ROCK	Rock	Compressive strength	IS 9143
68	MECHANICAL- SOIL AND ROCK	Rock	Density	IS 13030
69	MECHANICAL- SOIL AND ROCK	Rock	Point load index	IS 8764
70	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030
71	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
72	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)

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73	MECHANICAL- SOIL AND ROCK	Soil	Consolidation test	IS 2720 (Part 15)
74	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (Angle of internal friction)	IS 2720 (Part 13)
75	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (cohesion)	IS 2720 (Part 13)
76	MECHANICAL- SOIL AND ROCK	Soil	Dry density	IS 2720 (Part 29)
77	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
78	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (4.75 mm to 0.075 mm)	IS 2720 (Part-4)
79	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer Analysis (	IS 2720 (Part 4)
80	MECHANICAL- SOIL AND ROCK	Soil	In situ dry density of soil:By sand replacement method	IS 2720 (Part 28)
81	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
82	MECHANICAL- SOIL AND ROCK	Soil	Moisture content	IS 2720 (Part 2)
83	MECHANICAL- SOIL AND ROCK	Soil	Permeability test:Falling head and constant head	IS 2720 (Part 17)
84	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
85	MECHANICAL- SOIL AND ROCK	Soil	Proctor test (by Heavy compaction) MDD	IS 2720 (Part 8)
86	MECHANICAL- SOIL AND ROCK	Soil	Proctor test (by Heavy compaction) OMC	IS 2720 (Part 8)
87	MECHANICAL- SOIL AND ROCK	Soil	Proctor test (by Light compaction) MDD	IS 2720 (Part 7)
88	MECHANICAL- SOIL AND ROCK	Soil	Proctor test (by Light compaction) OMC	IS 2720 (Part 7)
89	MECHANICAL- SOIL AND ROCK	Soil	Relative density of cohesionless Soil: Maximum Dry Density	IS 2720 (Part 14)
90	MECHANICAL- SOIL AND ROCK	Soil	Relative density of cohesionless soils: Minimum Dry Density	IS 2720 (Part 14)

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91	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
92	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity	IS 2720 (Part 3, Sec 1)
93	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part 41)
94	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial shear test - Angle of internal friction	IS 2720 (Part 11)
95	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial shear test (C)	IS 2720 (Part 11)
96	MECHANICAL- SOIL AND ROCK	Soil	Unconfined compression shear test	IS 2720 (Part 10)
97	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Half Cell Potential Test	ASTM C 876
98	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Rebound hammer test	IS 516, Part 5, Sec 4
99	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Ultrasonic Pulse Velocity test	IS 516, Part-5, Sec 1

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Electrical Resistivity Test	IS 3043, Clause No. 40
2	MECHANICAL- SOIL AND ROCK	Soil	In situ dry density of soil:By sand replacement method	IS 2720 (Part 28)
3	MECHANICAL- SOIL AND ROCK	Soil	Plate Load Test	IS 1888
4	MECHANICAL- SOIL AND ROCK	Soil	Standard Penetration Test	IS 2131
5	MECHANICAL- SOIL AND ROCK	Soil	Undisturbed Sampling	IS 2132
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Half Cell Potential Test	ASTM C 876
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Rebound hammer test	IS 516, Part 5, Sec 4
8	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Ultrasonic Pulse Velocity test	IS 516, Part-5, Sec 1
9	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforcement Concrete Structure	Pile Integrity Test	ASTM D 5882