National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : KEYTECH MATERIAL TESTING LABORATORY, B-1, PRIMATE COMPLEX, BODAKDEV, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 13/04/2022 to 12/04/2024 **Last Amended on** 27/04/2022

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	AAC Blocks	Block Density	IS 6441 (Part-1)
2	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Compressive Strength	IS 6441 Part 5
3	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimensions - Breadth	IS 2185 Part 3
4	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimensions - Height	IS 2185 Part 3
5	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimensions - Length	IS 2185 Part 3
6	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Moisture Content	IS 6441 (Part-1)
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1201 to 1220
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1201 to 1220
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1201 to 1220
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1201 to 1220
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1201 to 1220
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1201 to 1220
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1201 to 1220
14	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content	ASTM D 2172
15	MECHANICAL- BUILDINGS MATERIALS	Bituminous mix	Compacted density of mix	ASTM D 2726
16	MECHANICAL- BUILDINGS MATERIALS	Bituminous mix	Flow Test	ASTM D 6927
17	MECHANICAL- BUILDINGS MATERIALS	Bituminous mix	Marshall Stability	ASTM D 6927
18	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive strength	IS 3495 Part 1

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19	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension Height	IS 1077
20	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension Length	IS 1077
21	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension Width	IS 1077
22	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence test	IS 3495 Part 3
23	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water absorption	IS 3495 Part 2
24	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 Part 11
25	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive strength	IS 4031 Part 6
26	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Consistency	IS 4031 Part 4
27	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Final setting times	IS 4031 Part 5
28	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by blaine air permeability	IS 4031 Part 2
29	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial setting times	IS 4031 Part 5
30	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Le–chatelier methods	IS 4031 Part 3
31	MECHANICAL- BUILDINGS MATERIALS	Ceramic / Vitrified Tiles	Dimensions - Length	IS 13630 : Part 1
32	MECHANICAL- BUILDINGS MATERIALS	Ceramic / Vitrified Tiles	Dimensions - Thickness	IS 13630 : Part 1
33	MECHANICAL- BUILDINGS MATERIALS	Ceramic / Vitrified Tiles	Dimensions - Width	IS 13630 : Part 1
34	MECHANICAL- BUILDINGS MATERIALS	Ceramic / Vitrified Tiles	Modulus of Rupture	IS 13630 : Part 6
35	MECHANICAL- BUILDINGS MATERIALS	Ceramic / Vitrified Tiles	Water Absorption	IS 13630 (Part-2)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% fines value	IS 2386 Part 4
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion value (by Los angeles)	IS 2386 Part 4

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 Part 3
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 Part 4
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 Part 1
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 Part 1
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 Part 4
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis (4.75 to 90 mm)	IS 2386 part 1
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS 2386 Part 3
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Striping value	IS 6241
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386 Part 3
47	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver block	Compressive strength	IS 15658
48	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver block	Density	IS 15658
49	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver block	Water absorption	IS 15658
50	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk density	IS 2386 (Part–3)
51	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 µ	IS 2386 Part 1
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (10 mm to 150 µm)	IS 2386 Part 1
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS 2386 Part 3
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386 Part 3
55	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Compressive Strength	IS 1727
56	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness by blain air permeability	IS 1727

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57	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Lime reactivity	IS 1727
58	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Particles Retained On 45 Micron Sieve	IS 1727
59	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific gravity	IS 1727
60	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump test	IS 1199
61	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516
62	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Density	IS 516
63	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexure Strength	IS 516
64	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Elongation	IS 1608 Part -1
65	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield Stress	IS 1608 part-1
66	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Bend test (Mandrel Diameter: 12mm, 15mm, 16mm, 18mm, 20mm, 24mm, 25mm, 28mm, 30mm, 32mm, 35mm, 36mm, 40mm, 42mm, 48mm, 50mm, 56mm, 60mm, 64mm, 70mm, 75mm, 80mm & 100mm)	IS 1599
67	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Tensile Strength	IS 1608 part 1
68	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Weight per meter	IS 1786
69	MECHANICAL- SOIL AND ROCK	Soil	Atterberg’s limit - Liquid Limit	IS 2720 Part 5
70	MECHANICAL- SOIL AND ROCK	Soil	Atterberg’s limit - Plastic Limit	IS 2720 Part 5
71	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 Part 16
72	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test	IS 2720 Part 15
73	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Angle	IS 2720 Part 13

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74	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Cohesion	IS 2720 Part 13
75	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 Part 40
76	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - MDD	IS 2720 Part 8
77	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - OMC	IS 2720 Part 8
78	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - OMC	IS 2720 Part 7
79	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction MDD	IS 2720 Part 7
80	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 Part 2
81	MECHANICAL- SOIL AND ROCK	Soil	Permeability (Constant Head)	IS 2720 Part 17
82	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 Part 6
83	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis (4.75 mm to 0.075 mm)	IS 2720 Part 4
84	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 Part 3
85	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 Part 10

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil Field Tests	Field Dry Density (by Core Cutter)	IS 2720 Part 29
2	MECHANICAL- SOIL AND ROCK	Soil Field Tests	Field Dry Density (by Sand Replacement Method)	IS 2720 Part 28