



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5461 Page No. : 1 / 8

Validity 13/04/2019 to 12/04/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
1	MECHANICAL-BUILDINGS MATERIALS	AAC Blocks	Compressive Strength	IS 6441 Part 5: 1972	1 N/mm <sup>2</sup> to 9 N/mm <sup>2</sup>
2	MECHANICAL-BUILDINGS MATERIALS	AAC Blocks	Dimensions - Breadth	IS 2185 Part 3: 1984	190 to 310 mm
3	MECHANICAL-BUILDINGS MATERIALS	AAC Blocks	Dimensions - Height	IS 2185 Part 3 : 1984	90 to 260 mm
4	MECHANICAL-BUILDINGS MATERIALS	AAC Blocks	Dimensions - Length	IS 2185 Part 3: 1984	390 to 610 mm
5	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1201 to 1220: 1978	600 to 6000 poise
6	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208: 1978	1 to 100 cm
7	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1201 to 1220: 1978	200 to 700 centistokes
8	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1212: 1978	0.0 to 10 %
9	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203: 1978	10 to 120 1/10 mm



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10	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205: 1978	25 to 70 °C
11	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202 : 1978	0.5 to 1.5
12	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Binder Content	ASTM D 4172: 2017	0.1 to 15 %
13	MECHANICAL-BUILDINGS MATERIALS	Bituminous mix	Compacted density of mix	ASTM D 2726: 2017	1 g/cm <sup>3</sup> to 4 g/cm <sup>3</sup>
14	MECHANICAL-BUILDINGS MATERIALS	Bituminous mix	Flow Test	ASTM D 6927: 2015	1 to 6 mm
15	MECHANICAL-BUILDINGS MATERIALS	Bituminous mix	Marshall Stability	ASTM D 6927: 2015	2 to 30 kN
16	MECHANICAL-BUILDINGS MATERIALS	Bricks	Compressive strength	IS 3495 Part 1: 1992	2.5 N/mm <sup>2</sup> to 20 N/mm <sup>2</sup>
17	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension Height	IS 1077: 1992	1300 to 1600 mm
18	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension Length	IS 1077: 1992	4500 to 5000 mm
19	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension Width	IS 1077: 1992	2100 to 2500 mm



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20	MECHANICAL-BUILDINGS MATERIALS	Bricks	Efflorescence test	IS 3495 Part 3: 1992	Qualitative
21	MECHANICAL-BUILDINGS MATERIALS	Bricks	Water absorption	IS 3495 Part 2: 1992	1 to 50 %
22	MECHANICAL-BUILDINGS MATERIALS	Cement	Density	IS 4031 Part 11: 1988	2.5 to 3.5
23	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive strength	IS 4031 Part 6: 1988	10 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>
24	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Consistency	IS 4031 Part 4: 1988	20 to 40 %
25	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Final setting times	IS 4031 Part 5: 1988	30 to 600 minutes
26	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by blaine air permeability	IS 4031 Part 2: 1999	150 m <sup>2</sup> /kg to 600 m <sup>2</sup> /kg
27	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by Dry sieving	IS 4031 Part 1: 1996	0.1 to 40 %
28	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial setting times	IS 4031 Part 5: 1988	5 to 300 minutes
29	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Le-chatelier methods	IS 4031 Part 3: 1988	0.5 to 10 mm



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30	MECHANICAL-BUILDINGS MATERIALS	Ceramic / Vitrified Tiles	Dimensions - Length	IS 13630 : Part 1 to 15: 2006	100 to 1000 mm
31	MECHANICAL-BUILDINGS MATERIALS	Ceramic / Vitrified Tiles	Dimensions - Thickness	IS 13630 Part 1 to 15: 2006	0.1 to 15 mm
32	MECHANICAL-BUILDINGS MATERIALS	Ceramic / Vitrified Tiles	Dimensions - Width	IS 13630 Part 1 to 15: 2006	100 to 1000 mm
33	MECHANICAL-BUILDINGS MATERIALS	Ceramic / Vitrified Tiles	Modulus of Rupture	IS 13630 Part 1 to 15: 2006	5 N/mm <sup>2</sup> to 55 N/mm <sup>2</sup>
34	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10% fine value	IS 2386 Part 4: 1963	5 to 250 kN
35	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Abrasion value (by Los angeles)	IS 2386 Part 4: 1963	1 to 50 %
36	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 Part 3: 1963	1 to 3 kg/l
37	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 Part 4: 1963	1 to 50 %
38	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 Part 1: 1963	1 to 50 %
39	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 Part 1: 1963	1 to 50 %



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40	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 Part 4: 1963	1 to 50 %
41	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis (4.75 to 90 mm)	IS 2386 part 1: 1963	0 to 100 %
42	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS 2386 Part 3: 1963	1.5 to 4
43	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Striping value	IS 6241: 1971	Qualitative
44	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386 Part 3: 1963	0.1 to 10 %
45	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver block	Compressive strength	IS 15658: 2006	10 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>
46	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver block	Water absorption	Is 15658: 2006	1 to 20 %
47	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 $\mu$	IS 2386 Part 1: 1963	0 to 5 %
48	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (10 mm to 150 $\mu$ m)	IS 2386 Part 1: 1963	0 to 100 %
49	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS 2386 Part 3: 1963	1.5 to 3



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50	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386 Part 3: 1963	0.1 to 10 %
51	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Compressive Strength	IS 1727: 1967	4 to 60 MPa
52	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Fineness by blain air permeability	IS 1727: 1967	50 m <sup>2</sup> /kg to 700 m <sup>2</sup> /kg
53	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Particles Retained On 45 Micron Sieve	IS 1727: 1967	5 to 75 %
54	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Slump test	IS 1199: 1959	1 to 200 mm
55	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516: 1959	10 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Bend test	IS 1599: 2012	Qualitative
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Elongation	IS 1608: 2005	1 to 40 %
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Tensile Strength	IS 1608: 2005	350 N/mm <sup>2</sup> to 750 N/mm <sup>2</sup>





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59	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS 1608: 2005	300 N/mm <sup>2</sup> to 675 N/mm <sup>2</sup>
60	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's limit - Liquid Limit	IS 2720 Part 5: 1985	20 to 80 %
61	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's limit - Plastic Limit	IS 2720 Part 5: 1985	12 to 45 %
62	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 Part 16: 1987	1 to 70 %
63	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test	IS 2720 Part 15: 1965	0.05 kg/cm <sup>2</sup> to 0.20 kg/cm <sup>2</sup>
64	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Angle	IS 2720 Part 13: 1986	0 to 50 °
65	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Cohesion	IS 2720 Part 13: 1986	0 kg/cm <sup>2</sup> to 2 kg/cm <sup>2</sup>
66	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 Part 40: 1977	10 to 200 %
67	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - MDD	IS 2720 Part 8: 1983	1 to 3 g/cc
68	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - OMC	IS 2720 Part 8: 1983	3 to 30 %
69	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - OMC	IS 2720 Part 7: 1980	3 to 30 %
70	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction MDD	IS 2720 Part 7: 1980	1 to 3 g/cc
71	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 Part 2: 1973	1 to 50 %



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72	MECHANICAL- SOIL AND ROCK	Soil	Permeability (Constant Head)	IS 2720 Part 17: 1986	0.01 to 0.0000001 cm/sec
73	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 Part 6: 1972	5 to 20 %
74	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis (4.75 mm to 0.075 mm)	IS 2720 Part 4: 1985	0 to 100 %
75	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 Part 3: 1980	1 to 3
76	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 Part 10: 1991	0.2 kg/cm <sup>2</sup> to 6 kg/cm <sup>2</sup>
77	MECHANICAL- SOIL AND ROCK	Soil Field Tests	FDD Core Cutter	IS 2720 Part 29: 1975	Qualitative
78	MECHANICAL- SOIL AND ROCK	Soil Field Tests	FDD Sand Replacement Method	IS 2720 Part 28: 1974	1 to 3 g/cc