National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATERIAL TESTING LABORATORY OF AAKAR CONSULTANCY SERVICES, BLOCK NO. 454, N.H. 6B, PALSANA, SURAT, 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	Asphalt Mix	Binder Content	ASTM D2172
2	MECHANICAL- BUILDINGS MATERIALS	Asphalt Mix	Bulk Density	ASTM D 2726
3	MECHANICAL- BUILDINGS MATERIALS	Asphalt Mix	Marshall Flow Value	ASTM-D 6927
4	MECHANICAL- BUILDINGS MATERIALS	Asphalt Mix	Marshall Stability	ASTM-D 6927
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Part-2)
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1206 (Part-3)
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1212
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
12	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay / Fly Ash Bricks	Compressive Strength	IS 3495 (Part-1)
13	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay / Fly Ash Bricks	Efflorescence	IS 3495 (Part-3)
14	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay / Fly Ash Bricks	Water Absorption	IS 3495 (Part-2)
15	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions (Height)	IS 1077
16	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions (Width)	IS 1077
17	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions (Length)	IS 1077
18	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Bricks	Dimensions (Length)	IS 13757

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19	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Bricks	Dimensions (Width)	IS 13757
20	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Bricks	Dimensions (Height)	IS 13757
21	MECHANICAL- BUILDINGS MATERIALS	Cement – OPC, PPC	Compressive Strength	IS 4031 (Part-6)
22	MECHANICAL- BUILDINGS MATERIALS	Cement – OPC, PPC	Consistency	IS 4031 (Part-4)
23	MECHANICAL- BUILDINGS MATERIALS	Cement – OPC, PPC	Density	IS 4031 (Part-11)
24	MECHANICAL- BUILDINGS MATERIALS	Cement – OPC, PPC	Final Setting Time	IS 4031 (Part-5)
25	MECHANICAL- BUILDINGS MATERIALS	Cement – OPC, PPC	Fineness by Blaine air permeability	IS 4031 (Part-2)
26	MECHANICAL- BUILDINGS MATERIALS	Cement – OPC, PPC	Initial Setting Time	IS 4031 (Part-5)
27	MECHANICAL- BUILDINGS MATERIALS	Cement – OPC, PPC	Soundness by Le-Chatelier	IS 4031 (Part-3)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value (Los Angeles)	IS 2386 (Part-4)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part-3)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-1)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part-4)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (4.75 mm to 80 mm)	IS 2386 (Part-1)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3)
37	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3)

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38	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Materials Finer than 75 micron	IS 2386 (Part-1)
39	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (0.075 mm to 10 mm)	IS 2386 (Part-1)
40	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3)
41	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part-3)
42	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Compressive Strength	IS 1727
43	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Final Setting Time	IS 1727
44	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness by Blaine Air Permeability	IS 1727
45	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Initial Setting Time	IS 1727
46	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Lime Reactivity	IS 1727
47	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Particles Retained on 45 micron Sieve	IS 1727
48	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Soundness by Le-Chatelier	IS 1727
49	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Specific Gravity	IS 1727
50	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Compaction Factor	IS 1199
51	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS 1199
52	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength (Core)	IS 516 (Part 4)
53	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength (Cube)	IS 516
54	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
55	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658

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56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	% Elongation	IS 1608 (Part-1)
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608 (Part-1)
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel	mass/meter	IS 1786
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel	Yield Stress	IS 1608 (Part-1)
60	MECHANICAL- SOIL AND ROCK	Building Stone	Apparent Specific Gravity	IS 1124
61	MECHANICAL- SOIL AND ROCK	Building Stone	Compressive Strength	IS 1121 (Part 1)
62	MECHANICAL- SOIL AND ROCK	Building Stone	Porosity	IS 1124
63	MECHANICAL- SOIL AND ROCK	Building Stone	True Specific Gravity	IS 1122
64	MECHANICAL- SOIL AND ROCK	Building Stone	Water Absorption	IS 1124
65	MECHANICAL- SOIL AND ROCK	Rock	Dry Density	IS 13030
66	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030
67	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
68	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
69	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
70	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Cc)	IS 2720 (Part 15)
71	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (UU) (Ø)	IS 2720 (Part 13)
72	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (UU) (C)	IS 2720 (Part 13)

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73	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
74	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (0.075 mm to 10 mm)	IS 2720 (Part 4)
75	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part 8)
76	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part 8)
77	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer Analysis	IS 2720 (Part 4)
78	MECHANICAL- SOIL AND ROCK	Soil	Laboratory Permeability	IS 2720 (Part 17)
79	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 (Part 7)
80	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part 7)
81	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit (Casagrande)	IS 2720 (Part 5)
82	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit (Cone Penetrometer)	IS 2720 (Part 5)
83	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2)
84	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
85	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
86	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity	IS 2720 (Part 3) (Section 1)
87	MECHANICAL- SOIL AND ROCK	Soil	Swell Pressure	IS 2720 (Part 41) (Sec.2)
88	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test (UU) (C)	IS 2720 (Part 11)
89	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test (UU) (Ø)	IS 2720 (Part 11)
90	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (Part 10)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil & Rock - Field Test	FDD by Core Cutter	IS 2720 (Part 29)
2	MECHANICAL- SOIL AND ROCK	Soil & Rock - Field Test	FDD by Sand Replacement	IS 2720 (Part 28)
3	MECHANICAL- SOIL AND ROCK	Soil & Rock - Field Test	Standard Penetration Test	IS 2131