National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HITECH CIVIL TESTLABS PRIVATE LIMITED, 15/2, PIPLIYAHANA, INDORE, MADHYA PRADESH, 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 Testing				
1	MECHANICAL-BUILDINGS MATERIALS	AAC Blocks	Bulk Density	IS 6441 (Part 1)
2	MECHANICAL-BUILDINGS MATERIALS	AAC Blocks	Compressive Strength	IS 6441 (Part 5)
3	MECHANICAL-BUILDINGS MATERIALS	AAC Blocks	Dimension (H)	IS 2185 (Part 3)
4	MECHANICAL-BUILDINGS MATERIALS	AAC Blocks	Dimension (L)	IS 2185 (Part 3)
5	MECHANICAL-BUILDINGS MATERIALS	AAC Blocks	Dimension (W)	IS 2185 (Part 3)
6	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Binder Content	ASTM D2172
7	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208 (Part 1)
8	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Fire Point	IS 1209 (Part 1)
9	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209 (Part 1)
10	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration Test	IS 1203
11	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205

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12	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
13	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Bulk Specific Gravity	ASTM D2726
14	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Marshal Flow	ASTM D6927
15	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Marshall Stability	ASTM D6927
16	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Theoretical Maximum Specific Gravity	ASTM D2041
17	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension (H)	IS 1077
18	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension (L)	IS 1077
19	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension (W)	IS 1077
20	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks/Fly Ash Bricks	Compressive Strength	IS 3495 (Part 1)
21	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks/Fly Ash Bricks	Efflorescence	IS 3495 (Part 3)
22	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks/Fly Ash Bricks	Water Absorption	IS 3495 (Part 2)
23	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Density	IS 4031 (Part 11)

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24	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting Time	IS 4031 (Part 5)
25	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness	IS 4031 (Part 1-by Dry Sieving)
26	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness	IS 4031 (Part 2-by Blain's Air Permeability)
27	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	IS 4031 (Part 5)
28	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness	IS 4031 (Part 3-by Le-Chatelier Method)
29	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC)	Standard Consistency	IS 4031 (Part 4)
30	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC) Mortar Cube	Compressive Strength	IS 4031 (Part 6)
31	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 4)
32	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Abrasion Value	IS 2386 (Part 4-by Los Angeles Method)
33	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS 2386 (Part 4)
34	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
35	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Clay Lumps	IS 2386 (Part 2)

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36	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
37	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
38	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
39	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Size: 100mm, 80mm, 63mm, 40mm, 20mm, 16mm, 10mm, 75mm, 37.5mm, 25mm, 19mm, 12.5mm, 9.5mm, 4.75mm & 2.36mm)	IS 2386 (Part 1)
40	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
41	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
42	MECHANICAL-BUILDINGS MATERIALS	Concrete	Compressive Strength	IS 9013 (by Accelerated Curing)
43	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
44	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose & Rodded)	IS 2386 (Part 3)
45	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Clay Lumps	IS 2386 (Part 2)

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46	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Material Finer Than 75 µm	IS 2386 (Part 1)
47	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Sieve Size: 10mm,4.75mm, 2.36mm, 1.18mm, 600Micron, 300Micron, 150Micron & 75 Micron)	IS 2386 (Part 1)
48	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
49	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
50	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Fineness (Particle Retained on 45 µm Sieve)	IS 1727 (by Wet Sieving)
51	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Soundness	IS 1727 (by Le-Chatelier Method)
52	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Specific Gravity	IS 1727
53	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Consistency (Slump Test)	IS 1199 (Part 2)
54	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Density Test	IS 1199 (Part 3)
55	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Final Setting Time	IS 1199 (Part 7)
56	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Initial Setting Time	IS 1199 (Part 7)

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57	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete Core	Compressive Strength	IS 516 (Part 4)
58	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete Cube	Compressive Strength	IS 516 (Part 1, Section 1)
59	MECHANICAL-BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658
60	MECHANICAL-BUILDINGS MATERIALS	Paver Blocks	Dimensions-Length	IS 15658
61	MECHANICAL-BUILDINGS MATERIALS	Paver Blocks	Dimension-Thickness	IS 15658
62	MECHANICAL-BUILDINGS MATERIALS	Paver Blocks	Dimension-Width	IS 15658
63	MECHANICAL-BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
64	MECHANICAL-BUILDINGS MATERIALS	Pulverized Fuel Ash Lime Bricks	Dimension (H)	IS 12894
65	MECHANICAL-BUILDINGS MATERIALS	Pulverized Fuel Ash Lime Bricks	Dimension (L)	IS 12894
66	MECHANICAL-BUILDINGS MATERIALS	Pulverized Fuel Ash Lime Bricks	Dimension (W)	IS 12894
67	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Couplers	% Elongation	IS 16172
68	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Couplers	Slip Test	IS 16172

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69	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Couplers	Ultimate Tensile Strength	IS 1608 (Part 1)
70	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel	Mass per Meter Run	IS 1786
71	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel	Re-bend Test	IS 1786
72	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel/Structural Steel	% Elongation	IS 1608 (Part 1)
73	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel/Structural Steel	Bend Test	IS 1599
74	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel/Structural Steel	Tensile Strength	IS 1608 (Part 1)
75	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel/Structural Steel	Yield Stress	IS 1608 (Part 1)
76	MECHANICAL- SOIL AND ROCKS	Rock	Point Load Test	IS 8764
77	MECHANICAL- SOIL AND ROCKS	Rock	Porosity	IS 13030
78	MECHANICAL- SOIL AND ROCKS	Rock	Specific Gravity	IS 1122
79	MECHANICAL- SOIL AND ROCKS	Rock	Unconfined Compressive Strength	IS 9143
80	MECHANICAL- SOIL AND ROCKS	Rock	Water Content	IS 13030

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81	MECHANICAL- SOIL AND ROCKS	Soil	Angle of Internal Friction (Unconsolidated Undrained Triaxial Compression Without the Measurement of Pore Water Pressure)	IS 2720 (Part 11)
82	MECHANICAL- SOIL AND ROCKS	Soil	CBR Value	IS 2720 (Part 16)
83	MECHANICAL- SOIL AND ROCKS	Soil	Cohesion (Unconsolidated Undrained Triaxial Compression Without the Measurement of Pore Water Pressure)	IS 2720 (Part 11)
84	MECHANICAL- SOIL AND ROCKS	Soil	Free Swell Index	IS 2720 (Part 40)
85	MECHANICAL- SOIL AND ROCKS	Soil	Grain Size Analysis (Sieve Size: 80mm, 40mm, 20mm, 10mm, 6.3mm, 4.75mm, 2.0mm, 1.18mm, 600Micron, 425Micron, 212Micron, 150Micron & 75Micron)	IS 2720 (Part 4)
86	MECHANICAL- SOIL AND ROCKS	Soil	Liquid Limit	IS 2720 (Part 5-by Cone Penetrometer)
87	MECHANICAL- SOIL AND ROCKS	Soil	Maximum Dry Density (Heavy Compaction)	IS 2720 (Part 8)
88	MECHANICAL- SOIL AND ROCKS	Soil	Maximum Dry Density (Light Compaction)	IS 2720 (Part 7)
89	MECHANICAL- SOIL AND ROCKS	Soil	Optimum Moisture Content (Heavy Compaction)	IS 2720 (Part 8)
90	MECHANICAL- SOIL AND ROCKS	Soil	Optimum Moisture Content (Light Compaction)	IS 2720 (Part 7)
91	MECHANICAL- SOIL AND ROCKS	Soil	Plastic Limit	IS 2720 (Part 5)

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92	MECHANICAL- SOIL AND ROCKS	Soil	Shrinkage Limit	IS 2720 (Part 6)
93	MECHANICAL- SOIL AND ROCKS	Soil	Specific Gravity	IS 2720 (Part 3)
94	MECHANICAL- SOIL AND ROCKS	Soil	Unconfined Compressive Strength	IS 2720 (Part 10)
95	MECHANICAL- SOIL AND ROCKS	Soil	Water Content	IS 2720 (Part 2-by Oven Drying)

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Site Testing				
1	MECHANICAL- SOIL-FIELD	Clay & Soils	Plate Load Test	IS 1888
2	MECHANICAL- SOIL-FIELD	Soil	Dry Density	IS 2720 (Part 28-By Sand Replacement Method)
3	MECHANICAL- SOIL-FIELD	Soil	Lateral Load test	IS 2911 (Part 4)
4	MECHANICAL- SOIL-FIELD	Soil	Plate Load Test (EV2)	DIN 18134
5	MECHANICAL- SOIL-FIELD	Soil	Standard Penetration Test	IS 2131
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Carbonation Depth Test	BS 1881-201
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Half Cell Potential Test	ASTM C876
8	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Rebound Hammer Test	IS 516 (Part 5, Section 4)
9	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity Test	IS 516 (Part 5, Section 1)