National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BHOOMIQC ENGINEERING LABORATORY, DUDHREJ-VANA ROAD, DUDHREJ, SURENDRANAGAR, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 21/03/2023 to 20/03/2025 **Last Amended on** -

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	Compressive Strength	IS 6441 (Part 5)
2	MECHANICAL- BUILDINGS MATERIALS	AAC blocks	Density	IS 6441 (Part 1)
3	MECHANICAL- BUILDINGS MATERIALS	AAC blocks	Dimensions - Height	IS 2185 (Part 03)
4	MECHANICAL- BUILDINGS MATERIALS	AAC blocks	Dimensions - Length	IS 2185 (Part 03)
5	MECHANICAL- BUILDINGS MATERIALS	AAC blocks	Dimensions - Width	IS 2185 (Part 03)
6	MECHANICAL- BUILDINGS MATERIALS	AAC blocks	Drying Shrinkage	IS 6441 (Part 2)
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS:1206 (Part 02)
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1201 to 1220
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematics Viscosity	IS:1206 (Part 03)
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1212
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening point	IS 1205
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific gravity	IS 1202
14	MECHANICAL- BUILDINGS MATERIALS	Bituminous mix	Binder Contents	ASTM D2172
15	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Compacted Density	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	Burnt clay brick / Fly ash brick	Compressive strength	IS 3495 (Part 1)

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19	MECHANICAL- BUILDINGS MATERIALS	Burnt clay brick / Fly ash brick	Dimension - Height	IS 1077
20	MECHANICAL- BUILDINGS MATERIALS	Burnt clay brick / Fly ash brick	Dimension - Length	IS 1077
21	MECHANICAL- BUILDINGS MATERIALS	Burnt clay brick / Fly ash brick	Dimension - Width	IS 1077
22	MECHANICAL- BUILDINGS MATERIALS	Burnt clay brick / Fly ash brick	Efflorescence	IS 3495 (Part 03)
23	MECHANICAL- BUILDINGS MATERIALS	Burnt clay brick / Fly ash brick	Water Absorption	IS 3495 (Part 2)
24	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive strength	IS 4031 (Part 6)
25	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 04)
26	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part 11)
27	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Tme	IS 4031 (Part 05)
28	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine	IS 4031 (Part 02)
29	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting time	IS 4031 (Part 05)
30	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier	IS 4031 (Part 03)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 04)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk density & voids	IS 2386 (Part 03)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 04)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386(Part 1)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness index	IS 2386 (Part 1)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Gradation (2.36 mm to 100 mm)	IS 2386(Part 1)
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386(Part 4)

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los angeles abrasion value	IS 2386 (Part 04)
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by MgSO4	IS 2386 (Part 05)
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	Fine Aggregate	Bulk density & voids	IS 2386 (Part 03)
43	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Gradation (0.075 to 4.75 mm)	IS 2386 (Part 01)
44	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material finer than 75 micron	IS 2386 (Part 01)
45	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 03)
46	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 03)
47	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump test	IS 1199 (Part 02)
48	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Comp. Strength by Accelerated Cured CC	IS 9013
49	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS 516 (Part 01/Sec 01)
50	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Core	Compressive Strength	IS 516 (Part 04)
51	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Cube	Compressive Strength	IS 516 (Part 05/Sec 01)
52	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
53	MECHANICAL- BUILDINGS MATERIALS	Paver block	Dimension - Width	IS 15658
54	MECHANICAL- BUILDINGS MATERIALS	Paver block	Dimensions - Length	IS 15658
55	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimensions - Thickness	IS 15658
56	MECHANICAL- BUILDINGS MATERIALS	Paver block	Plan Area/ Wearing face area	IS 15658

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57	MECHANICAL- BUILDINGS MATERIALS	Paver block	Water absorption	IS 15658
58	MECHANICAL- BUILDINGS MATERIALS	Pipes for Plumbing & drainage fittings	Color	IS 13592
59	MECHANICAL- BUILDINGS MATERIALS	Pipes for Plumbing & drainage fittings	Density	IS 12235 Part 14
60	MECHANICAL- BUILDINGS MATERIALS	Pipes for Plumbing & drainage fittings	Dimension –outside diameter, Wall thickness, Socket diameter, socket length, Overall length	IS 12235 Part 1
61	MECHANICAL- BUILDINGS MATERIALS	Pipes for Plumbing & drainage fittings	Tensile Strength	IS 12235 (Part-13)
62	MECHANICAL- BUILDINGS MATERIALS	Pipes for Plumbing & drainage fittings	Elongation	IS 12235 (Part-13)
63	MECHANICAL- BUILDINGS MATERIALS	Steel	0.2 % proof stress	IS 1608 (Part 01)
64	MECHANICAL- BUILDINGS MATERIALS	Steel	Bend	IS 1599
65	MECHANICAL- BUILDINGS MATERIALS	Steel	Elongation	IS 1608 (Part 1)
66	MECHANICAL- BUILDINGS MATERIALS	Steel	Re bend	IS 1786
67	MECHANICAL- BUILDINGS MATERIALS	Steel	Tensile Strength	IS 1608 (Part 1)
68	MECHANICAL- BUILDINGS MATERIALS	Steel	Yield Strength	IS 1608 (Part 01)
69	MECHANICAL- SOIL AND ROCK	Natural building stone	Apparent specific gravity	IS 1124
70	MECHANICAL- SOIL AND ROCK	Natural building stone	Compressive strength	IS 1121 (Part 01)
71	MECHANICAL- SOIL AND ROCK	Natural building stone	True specific gravity	IS 1122
72	MECHANICAL- SOIL AND ROCK	Natural building stone	Water absorption	IS 1124
73	MECHANICAL- SOIL AND ROCK	Soil	California Bearing ratio	IS 2720 (Part 16)
74	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test	IS 2720 (Part 15)

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75	MECHANICAL- SOIL AND ROCK	Soil	Direct shear - angle	IS 2720 (Part 13)
76	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear strength	IS 2720 (Part 13)
77	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
78	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part 04)
79	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - MDD	IS 2720 (Part 08)
80	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - OMC	IS 2720 (Part 08)
81	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - MDD	IS 2720 (Part 07)
82	MECHANICAL- SOIL AND ROCK	Soil	Light compaction - OMC	IS 2720 (Part 07)
83	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 05)
84	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 02)
85	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 05)
86	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 06)
87	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 03/Sec 01)
88	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part 41)
89	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (Part 10)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Clay & Soils	Dry Density- (Core Cutting Method)	IS 2720 (Part 29)
2	MECHANICAL- SOIL AND ROCK	Clay & Soils	Dry Density- (Sand Replacement Method)	IS 2720 (Part 28)