



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

GAYATRI GEOTECHNIC RESEARCH LLP, D-25, UDHYOG NAGAR, OLD N.H.
NO.8, BHOLAV, BHARUCH, GUJARAT, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-15551

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Validity

19/03/2025 to 18/03/2029

Last Amended on 19/06/2025

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	Autoclave Aerated Cellular Concrete Products	Bulk Density	IS 6441: Part 1
2	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Cellular Concrete Products	Compressive Strength	IS 6441: Part 5
3	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Cellular Concrete Products	Dimensions - Height (H)	IS 2185: Part 3
4	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Cellular Concrete Products	Dimensions - Length (L)	IS 2185: Part 3
5	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Cellular Concrete Products	Dimensions - Width (W)	IS 2185: Part 3
6	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Cellular Concrete Products	Moisture Content	IS 6441: Part 1
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208: Part 1
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Fire Point	IS 1209
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209
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	Solubility in Tri-chloroethylene	IS 1216
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
15	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Compressive Strength	IS 3495 (Part 1)
16	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension : Height	IS 1077
17	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension : Length	IS 1077
18	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension : Width	IS 1077
19	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Efflorescence	IS 3495 (Part 3)



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20	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Water Absorption	IS 3495 (Part 2)
21	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/ Composite)	Compressive Strength	IS 4031: Part 6
22	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/ Composite)	Consistency	IS 4031: Part 4
23	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/ Composite)	Density	IS 4031: Part 11
24	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/ Composite)	Final Setting time	IS 4031: Part 5
25	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/ Composite)	Fineness by Dry Sieving	IS 4031: Part 1
26	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/ Composite)	Fineness by Specific Surface	IS 4031: Part 2
27	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/ Composite)	Initial Setting time	IS 4031: Part 5
28	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/ Composite)	Soundness by Le-Chatelier	IS 4031: Part 3
29	MECHANICAL- BUILDINGS MATERIALS	Cement OPC	Compressive Strength	IS 4031 (Part 6)
30	MECHANICAL- BUILDINGS MATERIALS	Cement OPC	Consistency	IS 4031 (Part 4)
31	MECHANICAL- BUILDINGS MATERIALS	Cement OPC	Final Setting Time	IS 4031 (Part 5)
32	MECHANICAL- BUILDINGS MATERIALS	Cement OPC	Fineness by Dry Sieving	IS 4031 (Part 1)
33	MECHANICAL- BUILDINGS MATERIALS	Cement OPC	Initial Setting Time	IS 4031 (Part 5)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (80mm, 63mm, 40mm, 25mm, 20mm, 16mm, 12.5mm, 10mm, 6.3mm, 4.75mm, 2.36mm)	IS 2386 (Part 1)



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39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386: Part 4
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value	IS 2386 (Part 4)
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by MgSO ₄	IS 2386: Part 5
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na ₂ SO ₄	IS 2386: Part 5
46	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks (Solid/ Hollow)	Block Density	IS 2185 Part 1 (2005)
47	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks (Solid/ Hollow)	Compressive Strength	IS 2185 Part 1 (2005)
48	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks (Solid/ Hollow)	Dimensions - Height (H)	IS 2185 Part 1 (2005)
49	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks (Solid/ Hollow)	Dimensions - Length (L)	IS 2185 Part 1 (2005)
50	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks (Solid/ Hollow)	Dimensions - Width (W)	IS 2185 Part 1 (2005)
51	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks (Solid/ Hollow)	Water Absorption	IS 2185 Part 1 (2005)
52	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516: Part4
53	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516 (Part 1-Sec 1)
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (10mm, 4.75mm, 2.36mm, 1.18mm, 0.6mm, 0.3mm, 0.15mm, 0.075mm)	IS 2386 (Part 1)
56	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
57	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by MgSO ₄	IS 2386: Part 5



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58	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Na ₂ SO ₄	IS 2386: Part 5
59	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part 3)
60	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Compressive Strength	IS 3495 (Part 1)
61	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimension: Height	IS 13757
62	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimension: Length	IS 13757
63	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimension: Width	IS 13757
64	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Efflorescence	IS 3495 (Part 3)
65	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Water Absorption	IS 3495 (Part 2)
66	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Density	IS 4031: Part 11
67	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Fineness by Specific Surface	IS 4031: Part 2
68	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Soundness by Le-Chatelier	IS 4031: Part 3
69	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
70	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
71	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (8 mm to 32 mm)	Re-bend Test (Mandrel dia.: 32, 40, 48, 50, 56, 60, 70, 72, 84, 96, 108, 112, 120, 140, 144, 150, 175, 180, 192)	IS 1786 : 2008
72	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (8 mm to 32 mm)	Yield Strength	IS 1608 (Part 1 & 3)
73	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement (8 mm to 32 mm)	Bend Test (Mandrel dia.: 16, 20, 24, 30, 32, 36, 40, 48, 50, 56, 60, 64, 70, 72, 75, 80, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192)	IS 1599 : 2023 (ISO 7438 : 2020)
74	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement (8 mm to 32 mm)	Percentage Elongation	IS 1608 (Part 1 & 3)
75	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement (8 mm to 32 mm)	Ultimate Tensile Strength	IS 1608 (Part 1 & 3)
76	MECHANICAL- SOIL- BASIC	Soil	Free Swell Index	IS 2720 (Part 40)

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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77	MECHANICAL- SOIL- BASIC	Soil	Grain Size Analysis - Gravel	IS 2720 (Part 4)
78	MECHANICAL- SOIL- BASIC	Soil	Grain Size Analysis - Sand	IS 2720 (Part 4)
79	MECHANICAL- SOIL- BASIC	Soil	Grain Size Analysis - Silt & Clay	IS 2720 (Part 4)
80	MECHANICAL- SOIL- BASIC	Soil	Liquid Limit	IS 2720 (Part 5)
81	MECHANICAL- SOIL- BASIC	Soil	Specific Gravity	IS 2720 (Part 3/Sec 1)
82	MECHANICAL- SOIL- BASIC	Soil	Specific Gravity	IS 2720 (Part 3/Sec 2)
83	MECHANICAL- SOIL- BASIC	Soil	Standard Proctor Test (Light Compaction) Optimum Moisture Content (O.M.C.)	IS 2720 (Part 7)
84	MECHANICAL- SOIL- BASIC	Soil	Plastic Limit	IS 2720 (Part 5)
85	MECHANICAL- SOIL- BASIC	Soil	Consolidation Test (Cc)	IS 2720 (Part 15)
86	MECHANICAL- SOIL- BASIC	Soil	Consolidation Test (Cv)	IS 2720 (Part 15)
87	MECHANICAL- SOIL- BASIC	Soil	Consolidation Test (mv)	IS 2720 (Part 15)
88	MECHANICAL- SOIL- BASIC	Soil	Consolidation Test (Pc)	IS 2720 (Part 15)
89	MECHANICAL- SOIL- BASIC	Soil	Direct Shear Test (CU)- Angle of Internal friction (f)	IS 2720: Part 13
90	MECHANICAL- SOIL- BASIC	Soil	Direct Shear Test (CU)- Angle of Internal friction (f')	IS 2720: Part 13
91	MECHANICAL- SOIL- BASIC	Soil	Direct Shear Test (CU)- Cohesion (C)	IS 2720: Part 13
92	MECHANICAL- SOIL- BASIC	Soil	Direct Shear Test (CU)- Cohesion (C')	IS 2720: Part 13
93	MECHANICAL- SOIL- BASIC	Soil	Direct Shear Test (UU)- Angle of Internal friction (f)	IS 2720: Part 13
94	MECHANICAL- SOIL- BASIC	Soil	Direct Shear Test (UU)- Cohesion (C)	IS 2720: Part 13
95	MECHANICAL- SOIL- BASIC	Soil	Modified Proctor Test (Heavy Compaction) - Maximum Dry Density (M.D.D.)	IS 2720 (Part 8)
96	MECHANICAL- SOIL- BASIC	Soil	Modified Proctor Test (Heavy Compaction) - Optimum Moisture Content (O.M.C.)	IS 2720 (Part 8)
97	MECHANICAL- SOIL- BASIC	Soil	Soaked C.B.R.	IS 2720 (Part 16)
98	MECHANICAL- SOIL- BASIC	Soil	Standard Proctor Test (Light Compaction) Maximum Dry Density (M.D.D)	IS 2720 (Part 7)
99	MECHANICAL- SOIL- BASIC	Soil	Tri Axial Shear Test (CU) - Angle of Internal Friction (f)	IS 2720: Part 12



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100	MECHANICAL- SOIL- BASIC	Soil	Tri Axial Shear Test (CU) - Angle of Internal Friction (f')	IS 2720: Part 12
101	MECHANICAL- SOIL- BASIC	Soil	Tri Axial Shear Test (CU) - Cohesion (C)	IS 2720: Part 12
102	MECHANICAL- SOIL- BASIC	Soil	Tri Axial Shear Test (CU) - Cohesion (C')	IS 2720: Part 12
103	MECHANICAL- SOIL- BASIC	Soil	Tri Axial Shear Test (UU) - Angle of Internal Friction (f)	IS 2720: Part 12
104	MECHANICAL- SOIL- BASIC	Soil	Tri Axial Shear Test (UU) - Cohesion (C)	IS 2720: Part 12
105	MECHANICAL- SOIL- BASIC	Soil	Unconfined Compressive Strength	IS 2720: Part 10
106	MECHANICAL- SOIL- BASIC	Soil	Unsoaked C.B.R.	IS 2720 (Part 16)
107	MECHANICAL- SOIL- BASIC	Soil	Water Content	IS 2720: Part 2