National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : AHMEDABAD ENGINEERING RESEARCH INSTITUTE, G-4, NEWYORK TOWER, THALTEJ CROSS ROAD, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC- 6629 **Page No** 1 of 6

Validity 06/12/2022 to 05/12/2024 **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 Block	Compressive Strength	IS 6441, Part 5
2	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Density	IS 6441, Part 1
3	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimensions - Length, Width and Height	IS 2185 Part 3
4	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Moisture content	IS 6441, Part 1
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 in Mass	IS 9382
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration at 25°C 0.1 mm	IS 1203
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
12	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Density	ASTM D 2726
13	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Flow	ASTM D 6927
14	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D 6927
15	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Specific Gravity	ASTM D2041
16	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive strength	IS 3495 Part 1
17	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension - Height	IS 1077
18	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension - Length	IS 1077

SCOPE OF ACCREDITATION

Laboratory Name : AHMEDABAD ENGINEERING RESEARCH INSTITUTE, G-4, NEWYORK TOWER, THALTEJ CROSS ROAD, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC- 6629 **Page No** 2 of 6

Validity 06/12/2022 to 05/12/2024 **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
19	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension - Width	IS 1077
20	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 Part 3
21	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 Part 2
22	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 Part 6
23	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 Part 4
24	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 Part 11
25	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Times	IS 4031 Part 5
26	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine Air Permeability	S 4031 Part 2
27	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial setting times	IS 4031 Part 5
28	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le chatelier method	IS 4031 Part 3
29	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Cube	Compressive strength	IS 516
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386, Part 3
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386, Part-4
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 Part 1
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 Part 1
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 Part 4
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386 Part 4
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis / Gradation of Aggregate (4.75 micron to 125 mm)	IS 2386, Part-1

SCOPE OF ACCREDITATION

Laboratory Name : AHMEDABAD ENGINEERING RESEARCH INSTITUTE, G-4, NEWYORK TOWER, THALTEJ CROSS ROAD, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC- 6629 **Page No** 3 of 6

Validity 06/12/2022 to 05/12/2024 **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
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 Part 3
38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 Part 3
39	MECHANICAL- BUILDINGS MATERIALS	Concrete	Density	IS 516 (Part 2, Sec 1)
40	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer Than 75 micron	IS 2386 Part 1 Clause No 3
41	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (10 mm to 150 µm)	IS 2386 Part 1
42	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS 2386 Part 3
43	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	water absorption	IS 2386 Part 3
44	MECHANICAL- BUILDINGS MATERIALS	Flooring / Ceramic & vitrified Tiles	Dimension (Length)	IS 13630 Part- 1
45	MECHANICAL- BUILDINGS MATERIALS	Flooring / Ceramic & vitrified Tiles	Dimension (Thickness)	IS 13630 Part-1
46	MECHANICAL- BUILDINGS MATERIALS	Flooring / Ceramic & vitrified Tiles	Dimension (Width)	IS 13630 Part -1
47	MECHANICAL- BUILDINGS MATERIALS	Flooring Tiles Ceramic / Vitrified	Water Absorption	IS 13630 Part 2
48	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
49	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Abrasion Resistance	IS 15658
50	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions (Length)	IS 15658
51	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions (Thickness)	IS 15658
52	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions (Width)	IS 15658
53	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
54	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Bend test	IS 1599
55	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Elongation	IS 1608 Part 1

SCOPE OF ACCREDITATION

Laboratory Name : AHMEDABAD ENGINEERING RESEARCH INSTITUTE, G-4, NEWYORK TOWER, THALTEJ CROSS ROAD, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC- 6629 **Page No** 4 of 6

Validity 06/12/2022 to 05/12/2024 **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
56	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Mass per meter	IS 1786
57	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Re bend Test	IS 1786
58	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608 Part 1
59	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield Stress	IS 1608 (Part-1)
60	MECHANICAL- SOIL AND ROCK	Rock	Dry Density	IS 13030
61	MECHANICAL- SOIL AND ROCK	Rock	Point load index	IS 8764
62	MECHANICAL- SOIL AND ROCK	Rock	Specific Gravity	IS 13030
63	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compression Strength	IS 9143
64	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
65	MECHANICAL- SOIL AND ROCK	Soil	CBR	IS 2720 Part 16
66	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test	IS 2720 Part 15
67	MECHANICAL- SOIL AND ROCK	Soil	Determination of the shear strength parameters of a specimen tested in unconsolidated undrained triaxial compression without the measurement of pore water pressure - Angle	IS 2720 Part 11
68	MECHANICAL- SOIL AND ROCK	Soil	Determination of the shear strength parameters of a specimen tested in unconsolidated undrained triaxial compression without the measurement of pore water pressure - Cohesion	IS 2720 Part 11
69	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test Angle	IS 2720 Part 13
70	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test Cohesion	IS 2720 Part 13

SCOPE OF ACCREDITATION

Laboratory Name : AHMEDABAD ENGINEERING RESEARCH INSTITUTE, G-4, NEWYORK TOWER, THALTEJ CROSS ROAD, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC- 6629 **Page No** 5 of 6

Validity 06/12/2022 to 05/12/2024 **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
71	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 Part 40
72	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (20 mm to 0.075 mm)	IS 2720 Part 4
73	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction MDD	IS 2720 Part 8
74	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction OMC	IS 2720 Part 8
75	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction MDD	IS 2720 Part 7
76	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction OMC	IS 2720 Part 7
77	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 Part 5
78	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 Part 2
79	MECHANICAL- SOIL AND ROCK	Soil	Permeability (By Falling head method)	IS 2720 (Part–17)
80	MECHANICAL- SOIL AND ROCK	Soil	Plastic limit	IS 2720 Part 5
81	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 Part 6
82	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 Part 3
83	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 Part 41
84	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (Part–10)
85	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforcement Concrete Structure	Rebar Locator / Cover Meter Test	BS 1881 Part-204

SCOPE OF ACCREDITATION

Laboratory Name : AHMEDABAD ENGINEERING RESEARCH INSTITUTE, G-4, NEWYORK TOWER, THALTEJ CROSS ROAD, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC- 6629 **Page No** 6 of 6

Validity 06/12/2022 to 05/12/2024 **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
Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil Field Test	Dynamic Cone Penetration Test	IS 4968 Part-1
2	MECHANICAL- SOIL AND ROCK	Soil Field Test	Field Density by Core cutter method	IS 2720 (Part 29)
3	MECHANICAL- SOIL AND ROCK	Soil Field Test	Field Density by Sand Replacement	IS 2720 (Part 28)
4	MECHANICAL- SOIL AND ROCK	Soil Field Test	Plate Load Test	IS 1888
5	MECHANICAL- SOIL AND ROCK	Soil Field Test	Standard Penetration Test	IS 2131
6	MECHANICAL- SOIL AND ROCK	Soil Field Test	Undisturbed sample	IS 2132
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Rebound Hammer	IS 516, Part 5, Sec 4
8	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Ultrasonic Pulse Velocity	IS 516 Part 5 Sec 1