National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNITECH ENGINEERING CONSULTANCY AND RESEARCH LABORATORY, SHED NO. 4,5,7,8,9, GOHEL PLAZA, SARKHEJ BAVLA ROAD, CHANDGODAR, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9640 **Page No** 1 of 7

Validity 28/06/2021 to 27/06/2023 **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	Fresh concrete	Density of fresh concrete	IS 1199 Part 3
2	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete product	Block Density	IS 6441 Part 1
3	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete product	Dimensions - Length	IS 2185 Part 3
4	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete product	Dimensions - Width	IS 2185 Part 3
5	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete product	Drying shrinkage	IS 6441 Part 2
6	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete product	Moisture content	IS 6441 Part 1
7	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular(Aerated) Concrete product	Compressive Strength	IS 6441 Part 5
8	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular(Aerated) Concrete product	Dimensions - Height	IS 2185 Part 3
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute viscosity	IS 1206 Part 2
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Fire point -Cleveland open cup method	IS 1448 Part 69
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash point -Cleveland open cup Method	IS 1448 Part 69
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic viscosity test	IS 1206 Part 3
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss In mass	IS 9382
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen	softening point	IS 1205
17	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Solubility in trichloroethylene	IS 1216
18	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9640 **Page No** 2 of 7

Validity 28/06/2021 to 27/06/2023 **Last Amended on** -

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19	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix /Core	Extraction of Bitumen content	ASTM D2172
20	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix /Core	Density	ASTM D2726
21	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix /Core	Marshall Flow	ASTM D6927
22	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix /Core	Marshall Stability	ASTM D6927
23	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix /Core	Theoretical maximum specific gravity by flask method ,Gmm	ASTM D2041
24	MECHANICAL- BUILDINGS MATERIALS	Burnt clay brick	Dimension - Height	IS 1077
25	MECHANICAL- BUILDINGS MATERIALS	Burnt clay brick	Dimension - Length	IS 1077
26	MECHANICAL- BUILDINGS MATERIALS	Burnt clay brick	Dimension - width	IS 1077
27	MECHANICAL- BUILDINGS MATERIALS	Burnt clay brick	Efflorescence	IS 3495 Part 3
28	MECHANICAL- BUILDINGS MATERIALS	Burnt clay brick /Heavy duty burnt clay brick ,Burnt clay fly ash brick /Pulverized fuel ash lime brick	Water Absorption	IS 3495 Part 2
29	MECHANICAL- BUILDINGS MATERIALS	Burnt clay brick /Heavy duty burnt clay brick, Burnt clay fly ash brick /Pulverized fuel ash lime brick	Compressive strength	IS 3495 Part 1
30	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by sieving - Dry	IS 4031 Part 1
31	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive strength	IS 4031 Part 6
32	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Consistency	IS 4031 Part 4
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Density	IS 4031 Part 11
34	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final setting time	IS 4031 Part 5
35	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness test by blaine air permeability method	IS 4031 Part 2
36	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial setting time	IS 4031 Part 5
37	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness by Le-chatelier method	IS 4031 Part 3

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9640 **Page No** 3 of 7

Validity 28/06/2021 to 27/06/2023 **Last Amended on** -

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38	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Cube	Compressive strength	IS 516
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10 % fines value	IS 2386 Part-4
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Compacted)	IS 2386, Part 3
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (loose)	IS 2386 Part 3
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 Part-4
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 Part 1
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 Part 1
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 Part-4
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion value	IS 2386 Part-4
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Material Finer Than 75micron	IS 2386 Part 1 Clause No 3
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis /Gradation of Aggregate (2.36mm to 125 mm)	IS 2386 Part 1
49	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness	IS 2386 Part 5
50	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 Part 3
51	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping value	IS 6241
52	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 Part 3
53	MECHANICAL- BUILDINGS MATERIALS	Concrete cores	Compressive strength	IS 516 : Part 4
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (compacted)	IS 2386 Part 3
55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (loose)	IS 2386 Part 3

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56	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer Than 75micron	IS 2386 Part 1 Clause No 3
57	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (10 mm to 150 micron)	IS 2386 Part 1
58	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness	IS 2386 Part 5
59	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 Part 3
60	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	water absorption	IS 2386 Part 3
61	MECHANICAL- BUILDINGS MATERIALS	Flooring /Ceramic & vitrified Tiles	Dimension (Length)	IS 13630 Part-1
62	MECHANICAL- BUILDINGS MATERIALS	Flooring /Ceramic & vitrified Tiles	Dimension(Thickness)	IS 13630 Part-1
63	MECHANICAL- BUILDINGS MATERIALS	Flooring /Ceramic & vitrified Tiles	Dimension(Width)	IS 13630 Part-1
64	MECHANICAL- BUILDINGS MATERIALS	Flooring /Ceramic & vitrified Tiles	Water Absorption	IS 13630 Part-2
65	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Density	IS 1727
66	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness by blaine air permeability method	IS 1727
67	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Residue on 45 micron IS sieve	IS 1727
68	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Consistency by Slump test	IS 1199 Part 2
69	MECHANICAL- BUILDINGS MATERIALS	Hollow and solid concrete Block	Block Density	IS 2185 Part 1 (Annex C)
70	MECHANICAL- BUILDINGS MATERIALS	Hollow and solid concrete Block	Compressive strength	IS 2185 Part 1 (Annex D)
71	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid concrete Block	Dimension - Width	IS 2185 Part 1 (Annex B)
72	MECHANICAL- BUILDINGS MATERIALS	Hollow and solid concrete block	Dimension- Height	IS 2185 Part 1 (Annex B)
73	MECHANICAL- BUILDINGS MATERIALS	Hollow and solid concrete Block	Dimension -Length	IS 2185 Part 1 (Annex B)
74	MECHANICAL- BUILDINGS MATERIALS	Hollow and solid concrete Block	Water Absorption	IS 2185 Part 1 (Annex E)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9640 **Page No** 5 of 7

Validity 28/06/2021 to 27/06/2023 **Last Amended on** -

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75	MECHANICAL- BUILDINGS MATERIALS	Precast concrete blocks for paving (Paver block)	Dimension - Thickness	IS 15658(Annex-B)
76	MECHANICAL- BUILDINGS MATERIALS	Precast concrete blocks for paving(Paver block)	Compressive Strength	IS 15658(Annex-D)
77	MECHANICAL- BUILDINGS MATERIALS	Precast concrete blocks for paving(Paver block)	Dimension - Width	IS 15658(Annex-B)
78	MECHANICAL- BUILDINGS MATERIALS	Precast concrete blocks for paving(Paver block)	Dimensions -Length	IS 15658(Annex-B)
79	MECHANICAL- BUILDINGS MATERIALS	Precast concrete blocks for paving(Paver block)	Water Absorption	IS 15658(Annex-C)
80	MECHANICAL- SOIL AND ROCK	Rock	Dry density	IS 13030
81	MECHANICAL- SOIL AND ROCK	Rock	Point load strength index	IS 8764
82	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030
83	MECHANICAL- SOIL AND ROCK	Rock	Unconfined compressive strength	IS 9143
84	MECHANICAL- SOIL AND ROCK	Rock	water content	IS 13030
85	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test- Compression Index -CC	IS 2720 Part 15
86	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction test (Dry Density)	IS 2720 Part 7
87	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720 Part 16
88	MECHANICAL- SOIL AND ROCK	Soil	Consolidation test - Co-efficient of vol. compressibility Mv	IS 2720 Part 15
89	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test - Pc	IS 2720 Part 15
90	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test- coefficient of compressibility av	IS 2720 Part 15
91	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test- coefficient of consolidation Cv	IS 2720 Part 15
92	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test -Angle of shearing resistance - Ø	IS 2720 Part 13
93	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test Cohesion intercept -'C'	IS 2720 Part 13

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9640 **Page No** 6 of 7

Validity 28/06/2021 to 27/06/2023 **Last Amended on** -

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94	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 Part 40
95	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Hydrometer Method)	IS 2720 Part 4
96	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Wet sieve analysis method)	IS 2720 part 4
97	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction test (Dry Density)	IS 2720 Part 8
98	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction test (Moisture content)	IS 2720 Part 8
99	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction test (Moisture content)	IS 2720 Part 7
100	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 Part 5
101	MECHANICAL- SOIL AND ROCK	Soil	Permeability of soil - Constant Head	IS 2720 Part 17
102	MECHANICAL- SOIL AND ROCK	soil	Permeability of soil - Falling Head	IS 2720 Part 17
103	MECHANICAL- SOIL AND ROCK	Soil	Plastic limit	IS 2720 Part 5
104	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 Part 6
105	MECHANICAL- SOIL AND ROCK	soil	Specific Gravity	IS 2720 Part 3 Sec 1 & 2
106	MECHANICAL- SOIL AND ROCK	Soil	Triaxial compression test - without measurement of pore water pressure - angle of shear plane -Ø	IS 2720 Part 11
107	MECHANICAL- SOIL AND ROCK	Soil	Triaxial compression test - without measurement of pore water pressure - cohesion 'C'	IS 2720 Part 11
108	MECHANICAL- SOIL AND ROCK	Soil	Unconfined compressive strength	IS 2720 Part 10
109	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 Part 2

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9640	**Page No**	7 of 7
Validity	28/06/2021 to 27/06/2023	**Last Amended on**	-

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil field test	Dry density of soil in place by core cutter method	IS 2720 Part 29
2	MECHANICAL- SOIL AND ROCK	Soil field test	Dry density of soil in place by sand replacement method	IS 2720 Part 28
3	MECHANICAL- SOIL AND ROCK	Soil field test	Standard Penetration Test	IS 2131
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Half Cell Potential Difference test	ASTM C 876
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced concrete structure	Rebound Hammer Test	IS 13311 Part 2
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Ultrasonic Pulse Velocity Tests	IS 516 Part 5 Sec 1