National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MUKESH A. PATEL TECHNICAL CONSULTANCY AND CIVIL ENGINEERING LABORATORY, E/01, L/23 AND L/27, DARSHAN COMPLEX, RANNAPARK, GATLODIA, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 14/10/2022 to 13/10/2024 **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	Bituminous Mix Design	Bitumen content	ASTM D 2172
2	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix Design	Density	ASTM D2726
3	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix Design	Marshall Flow	ASTM D 6927
4	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix Design	Marshall stability	ASTM D 6927
5	MECHANICAL- BUILDINGS MATERIALS	Burnt clay building bricks	Compressive Strength	IS 3495 (Part - 1)
6	MECHANICAL- BUILDINGS MATERIALS	Burnt clay building bricks	Dimension–Height	IS 1077
7	MECHANICAL- BUILDINGS MATERIALS	Burnt clay building bricks	Dimension–Length	IS 1077
8	MECHANICAL- BUILDINGS MATERIALS	Burnt clay building bricks	Dimension–Width	IS 1077
9	MECHANICAL- BUILDINGS MATERIALS	Burnt clay building bricks	Efflorescence	IS 3495 (Part - 3)
10	MECHANICAL- BUILDINGS MATERIALS	Burnt clay building bricks	Water Absorption	IS 3495 (Part - 2)
11	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part-11)
12	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive strength	IS 4031 (Part - 6)
13	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Consistency	IS 4031 (Part - 4)
14	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Final setting time	IS 4031 (Part - 5)
15	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by Blaine air permeability	IS 4031 (Part - 2)
16	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial Setting Time	IS 4031 (Part - 5)
17	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Le–chatelier methods	IS 4031 (Part - 3), Clause No.5
18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	10% Fines Value	IS 2386 (Part - 4)

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19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Aggregate impact value	IS 2386 (Part - 4)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Aggregates Crushing Value	IS 2386 (Part - 4)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part - 1)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part - 1)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los Angeles abrasion value	IS 2386 (Part - 4)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Material finer than 75 micron	IS 2386 (Part - 1)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (4.75 mm to 100 mm)	IS 2386 (Part - 1)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (Part - 3)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Stripping Value	IS 6241
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (Part - 3)
29	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive strength	IS 516
30	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural strength	IS 516
31	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material finer than 75 micron	IS 2386 (Part - 1)
32	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (0.075 mm to 4.75 mm)	IS 2386 (Part - 1)
33	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (Part - 3)
34	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part - 3)
35	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump test	IS 1199 (Part - 2)
36	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Absolute Viscosity	IS 1206 (Part - 2)
37	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Ductility	IS 1208

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38	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Kinematic Viscosity	IS 1206 (Part - 3)
39	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Loss on Heating	IS 1212
40	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Penetration (1/10th mm)	IS 1203
41	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Softening Point	IS 1205
42	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Specific Gravity	IS 1202
43	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive strength	IS 9143
44	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part - 16)
45	MECHANICAL- SOIL AND ROCK	Soil	Consolidation test	IS 2720 (Part - 15)
46	MECHANICAL- SOIL AND ROCK	Soil	Direct shear - Angle of Internal friction (for soil up to 4.75 mm)	IS 2720 (Part - 13)
47	MECHANICAL- SOIL AND ROCK	Soil	Direct shear - Cohesion (for soil up to 4.75 mm)	IS 2720 (Part - 13)
48	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part - 40)
49	MECHANICAL- SOIL AND ROCK	Soil	Liquid limit	IS 2720 (Part - 5)
50	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part - 2)
51	MECHANICAL- SOIL AND ROCK	Soil	Particle Size Distribution (75 Micron to 125 mm)	IS 2720 (Part - 4)
52	MECHANICAL- SOIL AND ROCK	Soil	Permeability (Falling head method)	IS 2720 (Part - 17)
53	MECHANICAL- SOIL AND ROCK	Soil	Plastic limit	IS 2720 (Part - 5)
54	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Modified / Heavy) - MDD	IS 2720 (Part - 8)
55	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Modified / Heavy) - OMC	IS 2720 (Part - 8)
56	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Standard / Light) - MDD	IS 2720 (Part - 7)

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57	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Standard / Light) - OMC	IS 2720 (Part - 7)
58	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part - 6)
59	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part - 3) : Sec 1
60	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part - 3) : Sec 2
61	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part - 41)
62	MECHANICAL- SOIL AND ROCK	Soil	Tri axial test (Unconsolidated Undrained) -Cohesion	IS 2720, Part 11
63	MECHANICAL- SOIL AND ROCK	Soil	Tri Axial test (unconsolidated Undrained) - Angle (Phi)	IS 2720, Part 11
64	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (Part - 10)
65	MECHANICAL- SOIL AND ROCK	Stones	Apparent Specific Gravity	IS 1124
66	MECHANICAL- SOIL AND ROCK	Stones	True Specific Gravity	IS 1122
67	MECHANICAL- SOIL AND ROCK	Stones	Water Absorption	IS 1124

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Field Density by Core cutter method	IS 2720 (Part - 29)
2	MECHANICAL- SOIL AND ROCK	Soil	Field Density by Sand Replacement	IS 2720 (Part - 28)
3	MECHANICAL- SOIL AND ROCK	Soil	Field Moisture Content	IS 2720 (Part - 2)
4	MECHANICAL- SOIL AND ROCK	Soil	Standard Penetration Test	IS 2131