National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : S.T.B.S. MATERIAL TESTING CELL, SHREE TAPI BRAHMCHARYASHRAM SABHA COLLEGE OF DIPLOMA ENGINEERING, KAPODRA, VARACHHA ROAD, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7599 **Page No** 1 of 5

Validity 19/01/2023 to 18/01/2025 **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	Bitumen	Absolute viscosity	IS 1206 (Part 2)
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility test	IS 1208
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic viscosity	IS 1206 (Part 3)
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on heating test	IS 1212
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration test	IS 1203
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening point test	IS 1205
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific gravity test	IS 1202
8	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (Part-1)
9	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Height)	IS 1077
10	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Width)	IS 1077
11	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions (Length)	IS 1077
12	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part-2)
13	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part-6)
14	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part-4)
15	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part-5)
16	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part-5)
17	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness (by Le-Chatelier Method)	IS 4031 (Part-3)
18	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Cube	Compressive Strength	IS 516

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19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-IV)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-I)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-I)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Grading of Aggregate	IS 2386 (Part-I)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part-IV)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angles Abrasion value	IS 2386 (Part-IV)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3)
27	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Fineness Modulus by Gradation	IS 2386 (Part-I)
28	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3)
29	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part-3)
30	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
31	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
32	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	% Elongation	IS 1608 (Part 1)
33	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Bend Test (Mandrel Diameter: 20mm, 30mm, 32mm, 36mm, 40mm, 48mm, 50mm, 60mm, 80mm and 100mm)	IS 1786
34	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Re-bend Test (Mandrel Diameter: 32mm, 40mm, 50mm, 60mm, 70mm, 72mm, 84mm, 120mm and 128mm)	IS 1786
35	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Tensile Strength	IS 1608 (Part 1)

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36	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS 1608 (Part 1)
37	MECHANICAL- SOIL AND ROCK	Soil	CBR Test	IS 2720 (Part-16)
38	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Av)	IS 2720 (Part-15)
39	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Cv)	IS 2720 (Part-15)
40	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Pc)	IS 2720 (Part 15)
41	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (Cohesion)	IS 2720 (Part-13)
42	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle of friction)	IS 2720 (Part-13)
43	MECHANICAL- SOIL AND ROCK	Soil	Field Density (Core Cutter Method)	IS 2720 (Part-29)
44	MECHANICAL- SOIL AND ROCK	Soil	Field Density (Sand Replacement Method)	IS 2720 (Part-28)
45	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part-40)
46	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part-4)
47	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part-8)
48	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part-8)
49	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 (Part-7)
50	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part-7)
51	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part-5)
52	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part-5)
53	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part-3) section-1

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54	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test (Angle of friction)	IS 2720 (Part-12)
55	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test (Cohesion)	IS 2720 (Part-12)
56	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part-10)
57	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part-2)
58	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Cement Structure	Rebound Hammer Test	IS 516 Part - 5 Sec.- 4
59	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Cement Structure	Ultrasonic Pulse Velocity Test	IS 516 Part 5 Sec.-1

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Field Density (Core Cutter Method)	IS 2720 (Part-29)
2	MECHANICAL- SOIL AND ROCK	Soil	Field Density (Sand Replacement Method)	IS 2720 (Part-28)
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Cement Structure	Rebound Hammer Test	IS 516 Part - 5 Sec.- 4
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Cement Structure	Ultrasonic Pulse Velocity Test	IS 516 Part 5 Sec.-1