National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATERIAL TESTING LABORATORY (JEMS MULTI-TECH CONSULTANCY), 38-4, KHATODARA G.I.D.C, SANDESH PRESS'S STREET, MAJURA GATE, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8650 **Page No** 1 of 5

Validity 26/01/2023 to 25/01/2025 **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 1201 to 1220
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1201 to 1220
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematics Viscosity	IS 1201 to 1220
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on heating	IS 1201 to 1220
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1201 to 1220
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening point	IS 1201 to 1220
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific gravity	IS 1201 to 1220
8	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Compacted Density of Mix	ASTM D2726
9	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Flow test	ASTM D 6927
10	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D6927
11	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6)
12	MECHANICAL- BUILDINGS MATERIALS	Cement	Determination of Density	IS 4031 (Part 11)
13	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by blaine air permeability	IS 4031 (Part 2)
14	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by dry sieving	IS 4031 (Part 1)
15	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le- Chatelier method	IS 4031 (Part 3)
16	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 4)
17	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing value	IS 2386 (Part 4)

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19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 (Part 4)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles abrasion value	IS 2386 (Part 4)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis (90 mm to 4.75 mm Sieve)	IS 2386 (Part 1)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness	IS 2386 (Part 5)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS 2386 (Part 3)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part 1)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part 1)
27	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Bricks & Fly Ash Bricks	Compressive Strength	IS 3495 (Part 1)
28	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Bricks & Fly Ash Bricks	Efflorescence	IS 3495 (Part 3)
29	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Bricks & Fly Ash Bricks	Water Absorption	IS 3495 (Part 2)
30	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Bricks & Fly Ash Bricks	Dimensions (Breadth)	IS 1077
31	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Bricks & Fly Ash Bricks	Dimensions (Height)	IS 1077
32	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Bricks & Fly Ash Bricks	Dimensions (Length)	IS 1077
33	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 microns	IS 2386 (Part 1)
34	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve analysis (10 mm to 150 microns)	IS 2386 (Part 1)
35	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	water absorption	IS 2386 (Part 3)
36	MECHANICAL- BUILDINGS MATERIALS	FIne Aggregates	Bulk Density	IS 2386 (Part 3)
37	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific gravity	IS 2386 (Part 3)

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38	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump	IS 1199
39	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516
40	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength of beam	IS 516
41	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
42	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
43	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limits (Liquid Limit)	IS 2720 (Part 5)
44	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limits (Plastic limit)	IS 2720 (Part 5)
45	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (soaked & unsoaked)	IS 2720 (part 16)
46	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Cc)	IS 2720 (Part 15)
47	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (for Soil up to 4.75 mm) Cohesion	IS 2720 (Part 13)
48	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (for soil up to 4.75 mm) Phi	IS 2720 (Part 13)
49	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
50	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (90 mm to 75 microns)	IS 2720 (Part 4)
51	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (M.D.D.)	IS 2720 (Part 8)
52	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (O.M.C.)	IS 2720 (Part 8)
53	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (M.D.D.)	IS 2720 (Part 7)
54	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (O.M.C.)	IS 2720 (Part 7)
55	MECHANICAL- SOIL AND ROCK	Soil	Permeability (Constant Head Method)	IS 2720 (Part 17)
56	MECHANICAL- SOIL AND ROCK	Soil	Permeability (Falling Head Method)	IS 2720 (Part 17)

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57	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
58	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3)
59	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part 10)

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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 Method)	IS 2720 (Part 28)
3	MECHANICAL- SOIL AND ROCK	Soil	Field Determination of California Bearing Ratio	IS 2720 (Part 31)
4	MECHANICAL- SOIL AND ROCK	Soil	Field Moisture Content (By Core Cutter Method)	IS 2720 (Part 2)
5	MECHANICAL- SOIL AND ROCK	Soil	Field Moisture Content (By Sand Replacement Method)	IS 2720 (Part 2)