



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MATERIALS TESTING LAB, 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 / 7

Validity 12/09/2019 to 11/09/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
Permanent Facility				
1	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity at 135 °C	IS 1206 (Part 3): 1978 RA: 2014
2	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Binder Content	ASTM D2172: 2017
3	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Compacted Density	ASTM D2726: 2019
4	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D6927: 2015
5	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6): 1988 RA: 2019
6	MECHANICAL-BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part 11): 1988 RA: 2019
7	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5): 1988 RA: 2019
8	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Blaine's Air Permeability Method	IS 4031 (Part 2): 1999 RA: 2013
9	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Dry Sieving	IS 4031 (Part 1): 1966 RA: 2013
10	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5): 1988 RA: 2019

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11	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier's Method	IS 4031 (Part 3): 1988 RA: 2019
12	MECHANICAL-BUILDINGS MATERIALS	Cement	Standard Consistency	IS 4031 (Part 4): 1988 RA: 2019
13	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10 % Fines Value	IS 2386 (Part 4, Clause 3): 1963 RA: 2016
14	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value by Los Angeles Method	IS 2386 (Part 4, Clause 5.2): 1963 RA: 2016
15	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3, Clause 3): 1963 RA: 2016
16	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing value	IS 2386 (Part 4, Clause 2): 1963 RA: 2016
17	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4, Clause 4): 1963 RA: 2016
18	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis (4.75 mm to 90 mm)	IS 2386 (Part 1, Clause 2): 1963 RA: 2016
19	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na ₂ SO ₄	IS 2386 (Part 5): 1963 RA: 2016
20	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3, Clause 2): 1963 RA: 2016



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21	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3, Clause 3): 1963 RA: 2016
22	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Combined Flakiness and Elongation Index	IS 2386 (Part 1, Clause 4 & 5): 1963 RA: 2016
23	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Bricks & Fly Ash Bricks	Compressive Strength	IS 3495 (Part 1): 1992 RA: 2016
24	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Bricks & Fly Ash Bricks	Water Absorption	IS 3495 (Part 2): 1992 RA: 2016
25	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Bricks & Fly Ash Bricks	Efflorescence	IS 3495 (Part 3): 1992 RA: 2016
26	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Bricks	Dimensions (Height)	IS 1077: 1992 RA: 2016
27	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Bricks	Dimensions (Length)	IS 1077: 1992 RA: 2016
28	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Bricks	Dimensions (Width)	IS 1077: 1992 RA: 2016
29	MECHANICAL-BUILDINGS MATERIALS	Concrete Paving Blocks	Compressive Strength	IS 15658 (Annexure D): 2006 RA: 2017
30	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 microns	IS 2386 (Part 1, Clause 3): 1963 RA: 2016



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31	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (0.75 mm to 10 mm)	IS 2386 (Part 1, Clause 2): 1963 RA: 2016
32	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3): 1963 RA: 2016
33	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS 2386 (Part 3, Clause 3): 1963 RA: 2016
34	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (Part 3, Clause 2): 1963 RA: 2016
35	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Slump	IS 1199 (Part 2, Clause 4.3): 2018
36	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete - Beam	Flexural Strength	IS 516: 1959 RA: 2013
37	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete - Cube	Compressive Strength	IS 516: 1959 RA: 2013
38	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658 (Annexure C): 2006 RA: 2016
39	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Absolute Viscosity at 60 °C	IS 1206 (Part 2): 1978 RA: 2014
40	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Ductility at 25 °C	IS 1208: 1978 RA: 2014



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41	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Loss on Heating	IS 1212: 1978 RA: 2014
42	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Penetration at 25 °C	IS 1203: 1978 RA: 2014
43	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Softening Point	IS 1205: 1978 RA: 2014
44	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Specific Gravity	IS 1202: 1978 RA: 2014
45	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16): 1987 RA: 2016
46	MECHANICAL- SOIL AND ROCK	Soil	Consolidation - Compression Index (Cc)	IS 2720 (Part 15): 1986 RA: 2016
47	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Angle of Shearing Resistance	IS 2720 (Part 13): 1986 RA: 2016
48	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Cohesion	IS 2720 (Part 13): 1986 RA: 2016
49	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40): 1977 RA: 2016
50	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (0.075 mm to 19 mm)	IS 2720 (Part 4): 1985 RA: 2015
51	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8): 1983 RA: 2015
52	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8): 1983 RA: 2015
53	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Maximum Dry Density	IS 2720 (Part 7): 1980 RA: 2016

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54	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit by Casagrade Apparatus	IS 2720 (Part 5): 1985 RA: 2015
55	MECHANICAL- SOIL AND ROCK	Soil	Permeability by Constant Head Method	IS 2720 (Part 17): 1986 RA: 2016
56	MECHANICAL- SOIL AND ROCK	Soil	Permeability by Falling Head Method	IS 2720 (Part 17): 1986 RA: 2016
57	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5): 1985 RA: 2015
58	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6): 1972 RA: 2016
59	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3, Section 1): 1980 RA: 2016
60	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Angle of Shearing Resistance	IS 2720 (Part 11): 1993 RA: 2016
61	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Cohesion	IS 2720 (Part 11): 1993 RA: 2016
62	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part 10): 1991 RA: 2015



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Core Cutter Method	IS 2720 (Part 29): 1975 RA: 2015
2	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Sand Replacement Method	IS 2720 (Part 28): 1974 RA: 2015
3	MECHANICAL- SOIL AND ROCK	Soil	Field California Bearing Ratio	IS 2720 (Part 31): 1990 RA: 2015
4	MECHANICAL- SOIL AND ROCK	Soil	Standard Penetration	IS 2131: 1981 RA: 2016