National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MASS ENGINEERING SERVICES, SURVEY NO. 187, PLOT NO. 2, JAY JALARAM COMPOUND, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8842 **Page No** 1 of 5

Validity 14/02/2022 to 13/02/2024 **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	Bitumen	Softenig Point	IS 1205
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (P-2)
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematics Viscosity	IS 1206 (P-3)
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Binder Content	ASTM D 2172-e1
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Density	ASTM D 2726
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Flow Test	ASTM D 6927
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Marshal Stability	ASTM D 6927
11	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks	Dimension	IS 1077
12	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks / Fly Ash Brick	Compressive Strength	IS 3495 (Part-1)
13	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks / Fly Ash Brick	Efflorescence	IS 3495 (Part-3),
14	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks / Fly Ash Brick	Water Absorpation	IS 3495 (Part-2)
15	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6)
16	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (PART 4)
17	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031
18	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part-5)

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19	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness By Blain's Method	IS 4031 (Part-2)
20	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part-5)
21	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness By Le-Chatelier Method	IS 4031 (Part-2)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part-3)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-1)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part-4)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Loss Angels Abrasion	IS 2386 (Part-4)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part-1)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness By Sodium Sulphate	IS 2386 (Part-5)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Ten Percent Fines Value	IS 2386 (Part-4)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3)
33	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural Beam	IS 516
34	MECHANICAL- BUILDINGS MATERIALS	Concrete cubes	Compressive Strength	IS 516
35	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Block	Compressive Strength	IS 15658
36	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Blocks	Water Absorption	IS 15658
37	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3)

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38	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Finer Than 75 Micron	IS 2386 (Part-1)
39	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part-1)
40	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness By Sodium Sulphate	IS 2386 (Part-5)
41	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3)
42	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part-3)
43	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Dimension	IS 13757
44	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part-16)
45	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Density)	IS 2720 (Part-8)
46	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer Analysis	IS 2720 (Part-4)
47	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (Density)	IS 2720 (Part-7)
48	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part-5)
49	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part-41)
50	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Cc)	IS 2720 (Part-15)
51	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Pc)	IS 2720 (Part-15)
52	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (DUU) (Friction Angle)	IS 2720 (Part 13)
53	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (DUU), (Cohesion)	IS 2720 (Part 13)
54	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part-40)
55	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis(Wet Analysis)	IS 2720 (Part-4)
56	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part-8)

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57	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part-7)
58	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part-5)
59	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part-4)
60	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part-3, Section-1 & 2)
61	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (Part-10)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil (Site Testing)	Dynamic cone penetrometer test	ASTM D 6951
2	MECHANICAL- SOIL AND ROCK	Soil (Site Testing)	Field Dry Density by Core Cutter	IS 2720 (Part-29)
3	MECHANICAL- SOIL AND ROCK	Soil (Site Testing)	Field Dry Density by Sand Replacement	IS 2720 (Part-28)