National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MANGLAM CONSULTANCY SERVICES, A 56, GIDC, SECTOR 25, GANDHINAGAR, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 09/11/2022 to 08/11/2024 **Last Amended on** 06/01/2023

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	Penetration	IS 1203
3	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS 6441 (Part 5)
4	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Density	IS 6441 (Part 1)
5	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension Height	IS 2185 (Part 3)
6	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension Length	IS 2185 (Part 3)
7	MECHANICAL- BUILDINGS MATERIALS	AAC block	Dimension Width	IS 2185 (Part 3)
8	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Drying Shrinkage	IS 6441 (Part 2)
9	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Moisture Content	IS 6441 (Part 1)
10	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Thermal conductivity	IS 2185 (Part 3)
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematics Viscosity	IS 1206 (Part 3)
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1212
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Solubility in trichloroethylene	IS 1216
17	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
18	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Stripping Value	IS 6241

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19	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content	IRC SP 11
20	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Density	ASTM D2726
21	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshal Stability	ASTM D 6927
22	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Flow	ASTM D 6927
23	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Theoretical Maximum Specific Gravity	ASTM D 2041
24	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay/Fly ash/Fuel ash)	Compressive Strength	IS 3495 (Part 1)
25	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay/Fly ash/Fuel ash)	Dimension Height	IS 1077
26	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay/Fly ash/Fuel ash)	Dimension Length	IS 1077
27	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay/Fly ash/Fuel ash)	Dimension Width	IS 1077
28	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay/Fly ash/Fuel ash)	Efflorescence	IS 3495 (Part 3)
29	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay/Fly ash/Fuel ash)	Water Absorption	IS 3495 (Part 2)
30	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6)
31	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4)
32	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part 11)
33	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5)
34	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5)
35	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le- Chatilier method	IS 4031 (Part 3)
36	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by Blaine Method	IS 4031 (Part 2)
37	MECHANICAL- BUILDINGS MATERIALS	Coarse & Fine Aggregate	Alkali Aggregate Test (Bar Method)	IS 2386 (Part 7)

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10 % Fines Value	IS 2386 (Part 4)
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Compacted)	IS 2386 (Part 3)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (loose)	IS 2386 (Part 3)
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 (Part 4)
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Loss Angles Abrasion Value	IS 2386 (Part 4)
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve:- 80mm,75mm,53mm,45mm,40 mm,37.5mm,26.5mm,22.4mm, 20mm,19mm,16mm,13.2mm,1 2.5mm,11.2mm,10mm,9.5mm, 6.3mm,4.75mm,2.36mm)	IS 2386 (Part 1)
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by MgSO4	IS 2386 (Part 5)
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2SO4	IS 2386 (Part 5)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
50	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
51	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength	IS 516 part-1 sec-1
52	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural Strength	IS 516
53	MECHANICAL- BUILDINGS MATERIALS	Concrete	Split Tensile Strength	IS 5816
54	MECHANICAL- BUILDINGS MATERIALS	Concrete Paverblock	Dimension Test Thickness	IS 15658

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55	MECHANICAL- BUILDINGS MATERIALS	Concrete Paverblock	Plan Area	IS 15658
56	MECHANICAL- BUILDINGS MATERIALS	ConcretePaver Block	Compressive Strength	IS 15658
57	MECHANICAL- BUILDINGS MATERIALS	ConcretePaver Block	Dimension Test Width	IS 15658
58	MECHANICAL- BUILDINGS MATERIALS	ConcretePaver Block	Dimensions Test Length	IS 15658
59	MECHANICAL- BUILDINGS MATERIALS	ConcretePaver Block	Water Absorption	IS 15658
60	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose)	IS 2386 (Part 3)
61	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Compacted)	IS 2386 (Part 3)
62	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	material finer than 75 micron	IS 2386 (Part 1)
63	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Sieve : 10mm, 4.75mm,2.36mm,1.18mm,0.850mm,0.425mm,0.600mm,0.300mm,0.150mm,0.180 mm, 0.075mm)	IS 2386 (Part 1)
64	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
65	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
66	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Soundness by MgSO4	IS 2386 (Part 5)
67	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Soundness by Na2SO4	IS 2386 (Part 5)
68	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump	IS 1199 Part 2
69	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Bend Test	IS 1599
70	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Cross Sectional Area	IS 1786
71	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Elongation	IS 1608 (Part 1)
72	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Mass per meter	IS 1786

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73	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Rebend Test	IS 1786
74	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Tensile Strength	IS 1608 (Part 1)
75	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Yield Stress	IS 1608 (Part 1)
76	MECHANICAL- BUILDINGS MATERIALS	Pulverised Fuel Ash (Fly Ash/ Mond Ash/ bottom Ash)	Density	IS 1727
77	MECHANICAL- BUILDINGS MATERIALS	Pulverised Fuel Ash (Fly Ash/ Mond Ash/ bottom Ash)	Fineness Specific Surface by Blaine Air Permeability	IS 1727
78	MECHANICAL- BUILDINGS MATERIALS	Timber	Density	IS 1708 (Part 2)
79	MECHANICAL- BUILDINGS MATERIALS	Timber	Moisture Content	IS 1708 (Part 1)
80	MECHANICAL- SOIL AND ROCK	Rock	Density using Saturation and Buoyancy Techniques	IS 13030
81	MECHANICAL- SOIL AND ROCK	Rock	Point Load Strength Index	IS 8764
82	MECHANICAL- SOIL AND ROCK	Rock	Porosity using Saturation and Buoyancy Techniques	IS 13030
83	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
84	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
85	MECHANICAL- SOIL AND ROCK	Soil	Consolidation - Coefficient Compression (Cc)	IS 2720 (Part 15)
86	MECHANICAL- SOIL AND ROCK	Soil	Consolidation - Preconsolidation Pressure (Pc)	IS 2720 (Part 15)
87	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Angle of Shearing Resistance	IS 2720 (Part 13)
88	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Cohesion	IS 2720 (Part 13)
89	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
90	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
91	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/Sec 1)

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92	MECHANICAL- SOIL AND ROCK	Soil	Swell Pressure	IS 2720 (Part 41)
93	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Angle of Shearing Resistance	IS 2720 (Part 11)
94	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Cohesion	IS 2720 (Part 11)
95	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Oven Drying Method	IS 2720 (Part 2)
96	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Rapid Moisture Meter (Calcium Carbide)	IS 2720 (Part 2)
97	MECHANICAL- SOIL AND ROCK	Soil (Sieve:- 0.002 mm to 0.075 mm)	Hydrometer analysis	IS 2720 (Part 4)
98	MECHANICAL- SOIL AND ROCK	Soil (Sieve:- 0.075 mm to 4.75 mm)	Grain Size Analysis (Wet analysis)	IS 2720 (Part 4)
99	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	California Bearing Ratio	IS 2720 (Part 16)
100	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
101	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8)
102	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	Light Compaction - Maximum Dry Density	IS 2720 (Part 7)
103	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	Light Compaction - Optimum Moisture Content	IS 2720 (Part 7)
104	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM as per MoRTH Specifications)	Plastic Limit	IS 2720 (Part 5)
105	MECHANICAL- SOIL AND ROCK	Soil and (Murrum, GSB & WMM)	Liquid Limit	IS 2720 (Part 5)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Core Cutter Method	IS 2720 (Part 29)
2	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Sand Replacement Method	IS 2720 (Part 28)
3	MECHANICAL- SOIL AND ROCK	Soil	Standard Penetration	IS 2131
4	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Rapid Moisture Meter (Calcium Carbide)	IS 2720 (Part 2)
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity	IS 516 (Part 5/Sec1)
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Concrete Cover Depth	BS 1881 (Part 204)
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Half-Cell Potential Difference	ASTM C 876
8	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Rebound Hammer	IS 516 Part 5 Sec 4