National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MANGLAM CONSULTANCY SERVICES HYDERABAD, H. NO. 11-13-824, ROAD NO. 3, GREEN HILLS COLONY, RANGA REDDY DISTRICT, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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	Aggregate (Coarse)	Bulk Density	IS 2386 (P-3)
2	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Crushing Value	IS 2386 (P-4)
3	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Elongation Index	IS 2386 (P-1)
4	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Flakiness Index	IS 2386 (P-1)
5	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Impact value	IS 2386 (P-4)
6	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Loss Angles Abrasion Value	IS 2386 (P-4)
7	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Sieve Analysis	IS 2386 (P 1)
8	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Specific Gravity	IS 2386 (P-3)
9	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Water Absorption	IS 2386 (P-3)
10	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Bulk Density	IS 2386 (P 3)
11	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Sieve analysis	IS 2386 (P 1)
12	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Specific Gravity	IS 2386 (P 3)
13	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Water Absorption	IS 2386 (P 3)
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen (VG – 10 / 20 / 30 / 40, PMB – 40 / 70 / 120)	Absolute Viscosity	IS: 1206 (Part-2)
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen (VG – 10 / 20 / 30 / 40, PMB – 40 / 70 / 120)	Ductility	IS: 1208
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen (VG – 10 / 20 / 30 / 40, PMB – 40 / 70 / 120)	Flash & Fire Point Test	IS: 1209
17	MECHANICAL- BUILDINGS MATERIALS	Bitumen (VG – 10 / 20 / 30 / 40, PMB – 40 / 70 / 120)	Kinematic Viscosity	IS: 1206 (Part-3)
18	MECHANICAL- BUILDINGS MATERIALS	Bitumen (VG – 10 / 20 / 30 / 40, PMB – 40 / 70 / 120)	Loss on Heating by Rolling Thin Film Oven	ASTM D2872

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19	MECHANICAL- BUILDINGS MATERIALS	Bitumen (VG – 10 / 20 / 30 / 40, PMB – 40 / 70 / 120)	Penetration	IS: 1203
20	MECHANICAL- BUILDINGS MATERIALS	Bitumen (VG – 10 / 20 / 30 / 40, PMB – 40 / 70 / 120)	Softening Point	IS: 1205
21	MECHANICAL- BUILDINGS MATERIALS	Bitumen (VG – 10 / 20 / 30 / 40, PMB – 40 / 70 / 120)	Specific Gravity	IS: 1202
22	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Binder Content	ASTM D 2172
23	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Density	ASTM D2726
24	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Flow Test	ASTM D 6927
25	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Marshal Stability	ASTM D 6927
26	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC / PSC)	Compressive Strength	IS 4031 (P 6)
27	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC / PSC)	Consistency	IS 4031 (P 4)
28	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC / PSC)	Final Setting Time	IS 4031 (P 5)
29	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC / PSC)	Fineness by Blain's Air Permeability Method	IS 4031 (P 1)
30	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC / PSC)	Fineness by Dry Sieving	IS 4031 (P 1)
31	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC / PSC)	Initial Setting Time	IS 4031 (P 5)
32	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC / PSC)	Soundness by Le- Chatilier Method	IS 4031 (P 3)
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC / PSC)	Density	IS 4031 Part 11
34	MECHANICAL- BUILDINGS MATERIALS	Clay Brick/ Fly Ash Bricks/ Fly Ash Lime Bricks	Compressive Strength	IS 3495 (P 1)
35	MECHANICAL- BUILDINGS MATERIALS	Clay Brick/ Fly Ash Bricks/ Fly Ash Lime Bricks	Dimension (Burnt Clay Bricks) (L)	IS: 1077
36	MECHANICAL- BUILDINGS MATERIALS	Clay Brick/ Fly Ash Bricks/ Fly Ash Lime Bricks	Dimension (Burnt Clay Bricks) (W)	IS: 1077
37	MECHANICAL- BUILDINGS MATERIALS	Clay Brick/ Fly Ash Bricks/ Fly Ash Lime Bricks	Dimension (Fly Ash/ Fly Ash Lime Bricks) (H)	IS: 12894

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38	MECHANICAL- BUILDINGS MATERIALS	Clay Brick/ Fly Ash Bricks/ Fly Ash Lime Bricks	Dimension (Fly Ash/ Fly Ash Lime Bricks) (L)	IS 12894
39	MECHANICAL- BUILDINGS MATERIALS	Clay Brick/ Fly Ash Bricks/ Fly Ash Lime Bricks	Dimension (Fly Ash/ Fly Ash Lime Bricks) (W)	IS 12894
40	MECHANICAL- BUILDINGS MATERIALS	Clay Brick/ Fly Ash Bricks/ Fly Ash Lime Bricks	Efflorescence	IS 3495 (Part 3)
41	MECHANICAL- BUILDINGS MATERIALS	Clay Brick/ Fly Ash Bricks/ Fly Ash Lime Bricks	Water Absorption	IS 3495 (P 2)
42	MECHANICAL- BUILDINGS MATERIALS	Clay Brick/ Fly Ash Bricks/ Fly Ash Lime Bricks	Dimension (Burnt Clay Bricks) (H)	IS: 1077
43	MECHANICAL- BUILDINGS MATERIALS	Concrete (Cube & Core)	Compressive Strength (Cube and Core)	IS 516
44	MECHANICAL- BUILDINGS MATERIALS	Concrete (Cube & Core)	Flexural Beam	IS 516
45	MECHANICAL- BUILDINGS MATERIALS	Concrete (Cube & Core)	Slump	IS 1199
46	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Blocks	Compressive Strength	IS 15658 Annex D
47	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Blocks	Water Absorption	IS 15658 ANNEX C
48	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (P 16)
49	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test	IS: 2720 (P 15)
50	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test	IS: 2720 (P 15)
51	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test	IS: 2720 (P 13)
52	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test	IS: 2720 (P 13)
53	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS: 2720 (P 40)
54	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis by Dry Sieving	IS: 2720 Part 4
55	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis by Hydrometer	IS 2720 (P 04)
56	MECHANICAL- SOIL AND ROCK	Soil	Grain Size analysis by wet sieving	IS 2720 (P 04)

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57	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS: 2720 (P 8)
58	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS: 2720 (P 8)
59	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS: 2720 (P 7)
60	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS: 2720 (P 7)
61	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS: 2720 (P 5)
62	MECHANICAL- SOIL AND ROCK	Soil	Permeability Test by Constant Head and Variable Head Tests	IS: 2720 (P 17)
63	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS: 2720 (P 5)
64	MECHANICAL- SOIL AND ROCK	Soil	Sand Equivalent Test	IS: 2720 (P 37)
65	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage limit	IS: 2720 (P 6)
66	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS: 2720 (P 3/sec-1)
67	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Oven Drying Method	IS: 2720 (P 2)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Field Density by Core Cutter Method	IS: 2720 (P 29)
2	MECHANICAL- SOIL AND ROCK	Soil	Field Density by Sand Replacement Method	IS: 2720 (P 28)
3	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Rapid Moisture Meter	IS: 2720 (P 2)
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Rebound Hammer	IS:516 Part-5 Sec-4
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Ultrasonic Pulse Velocity Test	IS:516 (Part 5 / Sec 1)