



(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name

MANGLAM CONSULTANCY SERVICES, 6- GOPAL PATEL ESTATE, C.T.M.CROSS ROAD, JASHODANAGAR ROAD, AMARAIWADI, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5724 Page No.: 1/7

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
		Pe	ermanent Facility		
1	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity at 60?	IS 1206 (Part 2): 1978 RA 2014	800 Poise to 4800 Poise
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1202: 1978 RA 2014	20 cm to 100 cm
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity at 135	IS 1206 (Part 3): 1978	200 cSt to 700 cSt
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration at 25	IS 1203: 1978	35 (1/10 mm) to 100 (1/10 mm)
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205: 1978 RA 2014	20 ? to 65 ?
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202: 1978 RA 2014	0.99 to 1.102
7	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Density	ASTM D2726: 2019	1.5 g/cc to 3.5 g/cc
8	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Flow	ASTM D6927: 2015	1 mm to 10 mm
9	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D6927: 2015	2 kN to 25 kN





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10	MECHANICAL- BUILDINGS MATERIALS	Bituminous. Mix	Binder Content	IRC SP 11: 1984 Appendix 5, Clause C	1 % to 10 %
11	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive strength	IS 4031 (Part 6): 1988 RA 2019	10 N/mm2 to 70 N/mm2
12	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5): 1988 RA 2019	100 minutes to 700 minutes
13	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine's Air Permeability Method	IS 4031 (Part 2): 1999 RA 2013	100 m2/kg to 600 m2/kg
14	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by dry sieving	IS 4031 (Part 1): 1996 RA. 2016	0.1 % to 15 %
15	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial setting time	IS 4031 (Part 5): 1988 RA 2019	30 minutes to 250 minutes
16	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le- chatelier method	IS 4031 (Part 3): 1988 RA 2019	0.5 mm to 10 mm
17	MECHANICAL- BUILDINGS MATERIALS	Cement	Standard Consistency	IS 4031 (Part 4): 1988 RA 2019	25 % to 40 %
18	MECHANICAL- BUILDINGS MATERIALS	Clay/Fly ash brick	Compressive Strength	IS 3495 ((Part 1): 1992 RA 2016	3 N/mm2 to 75 N/mm2
19	MECHANICAL- BUILDINGS MATERIALS	Clay/Fly ash brick	Dimension - Height	IS 1077: 1992 RA 2016	1360 mm to 1440 mm





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20	MECHANICAL- BUILDINGS MATERIALS	Clay/Fly ash brick	Dimension - Length	IS 1077: 1992 RA 2016	4520 mm to 4680 mm
21	MECHANICAL- BUILDINGS MATERIALS	Clay/Fly ash brick	Dimension - Width	IS 1077: 1992 RA 2016	2160 mm to 2240 mm
22	MECHANICAL- BUILDINGS MATERIALS	Clay/Fly ash brick	Efflorescence	IS 3495-1992 (Part 3): 2011	Qualitative
23	MECHANICAL- BUILDINGS MATERIALS	Clay/Fly ash brick	Water absorption	IS 3495 (Part 2): 1992 RA 2016	2 % to 25 %
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Compacted Bulk Density	IS 2386 (Part 3): 1963 RA 2016	1.2 kg/L to 1.8 kg/L
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4): 1963 RA 2016	5 % to 40 %
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1): 1963 RA 2016	5 % to 40 %
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4): 1963 RA 2016	5 % to 50 %
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Loose Bulk Density	IS 2386 (Part 3): 1963 RA 2016	1.2 kg/L to 1.6 kg/L
29	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Los Angeles Abrasion Value	IS 2386 (Part 4): 1963 RA 2016	5 % to 50 %





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30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (4.75 to 125 mm)	IS 2386 (Part 1): 1963 RA 2016	upto to 100 %
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3): 1963 RA 2016	2.5 to 3.5
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3): 1963 RA 2016	1 % to 10 %
33	MECHANICAL- BUILDINGS MATERIALS	Coarse ggregate	Flakiness Index	IS 238 (Part 1): 1963 RA 2016	5 % to 40 %
34	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive strength	IS 516: 1959 RA 2013	10 N/mm2 to 80 N/mm2
35	MECHANICAL- BUILDINGS MATERIALS	Concrete paver block	Compressive strength	IS 15658: 2002 RA 2017; Annex D	5 N/mm2 to 80 N/mm2
36	MECHANICAL- BUILDINGS MATERIALS	Concrete paver block	Water absorption	IS 15658: 2006 RA 2017; Annex C	1 % to 20 %
37	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (0.075 to 10 mm)	IS 2386 (Part 1): 1963 RA 2016	upto to 100 %
38	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3): 1963 RA 2016	2.5 to 3.5
39	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Water absorption	IS 2386 (Part 3): 1963 RA 2016	1 % to 10 %





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40	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bar for Concrete Reinforcement	0.2 % Proof Stress	IS 1608 (Part 1): 2018	100 N/mm2 to 800 N/mm2
41	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bar for Concrete Reinforcement	Elongation	IS 1608 (Part 1): 2018	10 % to 40 %
42	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bar for Concrete Reinforcement	Mass per Meter	IS 1786: 2008 RA 2013	0.1 kg/m to 10 kg/m
43	MECHANICAL- BUILDINGS MATERIALS	High Strength deformed Steel Bar for Concrete Reinforcement	Ultimate tensile strength	IS 1608 (Part 1): 2018	100 N/mm2 to 800 N/mm2
44	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	0.2% Proof stress	IS 1608- part 1: 2018	100 N/mm2 to 800 N/mm2
45	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Elongation	IS 1608- part 1: 2018	10 % to 40 %
46	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Mass per meter	IS 1786-2008: 2013	0.1 Kg/m to 100 Kg/m





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47	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Ultimate tensile strength	IS 1608- part 1: 2018	100 N/mm2 to 800 N/mm2
48	MECHANICAL- SOIL AND ROCK	Soil	California Bearing ratio	IS 2720 (Part 16): 1987 RA 201 6	1 % to 50 %
49	MECHANICAL- SOIL AND ROCK	Soil	Consolidation - Cc	IS 2720 (Part 15): 1986 RA 2016	0.01 (Cc) to 2.0 (Cc)
50	MECHANICAL- SOIL AND ROCK	Soil	Consolidation - Pc	IS 2720 (Part 15): 1986 RA 2016	0.1 Kg/cm2 to 8 Kg/cm2
51	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Angle of Shearing Resistance	IS 2720 (Part 13): 1986 RA 2016	5 degree to 40 degree
52	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Cohesion	IS 2720 (Part 13): 2015	0 kg/cm2 to 0.9 kg/cm2
53	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40): 1977 RA 2016	10 % to 300 %
54	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (0.075 to 4.75 mm)	IS 2720 (Part 4): 1985 RA 2015	upto to 100 %
55	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis by Hydrometer	IS 2720 (Part 4): 1985 RA 2015	upto to 100 %
56	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part 8): 1983 RA 2015	1.3 g/cc to 2.6 g/cc
57	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part 8): 1983 RA 2015	5 % to 25 %
58	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer Analysis	IS 2720 1985 (Part 4): 2015	20 Silt (%) to 95 Silt (%)
59	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (M.D.D)	IS 2720 (Part 7): 1980 RA 2016	1.0 g/cc to 2.4 g/cc





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60	MECHANICAL- SOIL AND ROCK	Soil	Light compaction (O.M.C)	IS 2720 (Part 7): 1980 RA 2016	5 % to 30 %
61	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit by Cone Penetrometer	IS 2720 (Part 5): 1985 RA 2015	20 % to 120 %
62	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5): 1985 RA 2015	6 % to 40 %
63	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6): 1972 RA 2016	5.0 % to 30 %
64	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis	IS 2720 1985 (Part 4): 2015	1 % (75 mic.) to 100 % (4.75 mm)
65	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3 Sec.1): 1980 RA 2016	2.4 to 3.0
66	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part 41): 1977 RA 2016	0.1 Kg/cm2 to 1.5 Kg/cm2
67	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Angle of Shearing Resistance	IS 2720 (Part 11): 1993 RA 2016	upto degree to 40 degree
68	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Cohesion	IS 2720 (Part 11): 1993 RA 2016	0.10 kg/cm2 to 2.5 kg/cm2
69	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part 10): 1991 RA 2015	0.1 kg/cm2 to 10 kg/cm2