



# National Accreditation Board for Testing and Calibration Laboratories

(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

Validity                                      12/07/2019 to 11/07/2021              Last Amended on                              -

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
<b>Permanent Facility</b>					
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 aggregate	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/mm <sup>2</sup> to 80 N/mm <sup>2</sup>
35	MECHANICAL-BUILDINGS MATERIALS	Concrete paver block	Compressive strength	IS 15658: 2002 RA 2017; Annex D	5 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>
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 %





