



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MANGLAM CONSULTANCY SERVICES, 'VALLABHKRUPA', ELLORA PARK,
SUBHANPURA ROAD, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5880 Page No. : 1 / 15

Validity 09/07/2019 to 08/07/2021 Last Amended on 19/07/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
Permanent Facility				
1	CHEMICAL- WATER	Water	Acidity	IS 3025 (Part 22): 1986
2	CHEMICAL- WATER	Water	Alkalinity	IS 3025 (Part 23): 1986
3	CHEMICAL- WATER	Water	Chloride	IS 3025 (Part 32): 1988
4	CHEMICAL- WATER	Water	Inorganic Solid	IS 3025 (Part 18): 1984
5	CHEMICAL- WATER	Water	Organic Solids	IS 3025 (Part 18): 1984
6	CHEMICAL- WATER	Water	pH	IS 3025 (Part 11): 1983
7	CHEMICAL- WATER	Water	Suspended Solid	IS 3025 (Part 17): 1984
8	CHEMICAL- WATER	Water	Total Dissolved Solids (TDS)	IS 3025 (Part 16): 1984
9	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Compressive Strength	IS 6441 (part 5): 1972
10	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Density	IS 6441 (Part 1): 1972
11	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Drying Shrinkage	IS 6441 (Part 2): 1972
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Part 2): 1978
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Viscosity Ratio at 60°C	IS 1206: 1978 RA: 2014
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coagulation of Emulsion at low temperature	IS 8887: 2017



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15	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Miscibility with water	IS 8887: 2017
16	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Particle Charge	IS 8887: 2017
17	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Penetration on Residue	IS 1203: 1978 RA: 2014
18	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Residue by evaporation	IS 8887: 2017
19	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 micron sieve	IS 8887: 2017
20	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Saybolt Furol Viscosity	IS 3117: 2004: 2014
21	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Storage stability after 24 hour	IS 8887: 2017
22	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Binder Content	IRC SP 11: 1984 Appendix 5, Clause C
23	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Density	ASTM D 2726: 2019
24	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Flow	ASTM D 6927: 2015



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
25	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Marshal Stability	ASTM D 6927: 2015
26	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Theoretical maximum Specific Gravity	ASTM D2041: 2019
27	MECHANICAL-BUILDINGS MATERIALS	Bricks	Compressive Strength	is 3495: 1992
28	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension Height	IS 1077: 1992
29	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension Length	IS 1077: 1992
30	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension Width	IS 1077: 1992
31	MECHANICAL-BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part 3): 1992
32	MECHANICAL-BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2): 1992
33	MECHANICAL-BUILDINGS MATERIALS	cement	Compressive strength	IS 4031 (Part 6): 1988 RA: 2014
34	MECHANICAL-BUILDINGS MATERIALS	cement	Consistency	IS 4031 (Part 4): 1988 RA: 2014



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
35	MECHANICAL-BUILDINGS MATERIALS	cement	Final Setting time	IS 4031 (Part 5): 1988 RA: 2014
36	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Blain's method	IS 4031 (Part 2): 1999 RA: 2018
37	MECHANICAL-BUILDINGS MATERIALS	cement	Initial setting time	IS 4031 (Part 5): 1988 RA: 2014
38	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by Le-Chatellier method	IS 4031 (Part 3): 1988 RA: 2014
39	MECHANICAL-BUILDINGS MATERIALS	Cement	Specific Gravity	IS 4031 (Part 10): 1988 RA: 2014
40	MECHANICAL-BUILDINGS MATERIALS	Ceramic/ Glazed/Vitrified Tiles	Rectangularity	IS 13630 (Part 1): 2019
41	MECHANICAL-BUILDINGS MATERIALS	Ceramic/Glazed/Vitrified Tiles	Breaking Strength	IS 13630 (Part 6): 2019
42	MECHANICAL-BUILDINGS MATERIALS	Ceramic/Glazed/Vitrified Tiles	Dimension Length	IS 13630 (Part 1): 2019
43	MECHANICAL-BUILDINGS MATERIALS	Ceramic/Glazed/Vitrified Tiles	Dimension Thickness	IS 13630 (Part 1): 2019
44	MECHANICAL-BUILDINGS MATERIALS	Ceramic/Glazed/Vitrified Tiles	Dimension Width	IS 13630 (Part 1): 2019



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
45	MECHANICAL-BUILDINGS MATERIALS	Ceramic/Glazed/Vitrified Tiles	Modulus of Rupture	IS 13630 (Part 6): 2019
46	MECHANICAL-BUILDINGS MATERIALS	Ceramic/Glazed/Vitrified Tiles	Straightness	IS 13630 (Part 1): 2019
47	MECHANICAL-BUILDINGS MATERIALS	Ceramic/Glazed/Vitrified Tiles	Water Absorption	IS 13630 (Part 2): 2019
48	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 4): 1963
49	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na ₂ SO ₄	IS 2383 (Part 5): 1963
50	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	10% Fine Value	IS 2386 (Part 5): 1963
51	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS 2386 (Part 4): 1963
52	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Deleterious Material	IS 2386 (Part 1): 1963
53	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part 1): 1963
54	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part 1): 1963



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55	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS 2386 (Part 4): 1963
56	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Los Angeles Abrasion Value	IS 2386 (Part 4): 1963
57	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Petrographic Examination	IS 2386 (Part 8): 1963
58	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregates	Sieve analysis (4.75 mm to 90 mm)	IS 2386 (Part 1): 1963
59	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (Part 3): 1963
60	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (Part 3): 1963
61	MECHANICAL-BUILDINGS MATERIALS	Concrete	Compressive Strength	IS 516: 1959
62	MECHANICAL-BUILDINGS MATERIALS	Concrete	Flexural Strength	516: 1959
63	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver Block	Water Absorption	IS 15658: 2006 Annex C
64	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver Blocks	Compressive Strength	IS 15658: 2006



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
65	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver Blocks	Dimension Thickness	IS 15658: 2006 Annex B
66	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver Blocks	Dimensions Length	IS 15658: 2006 Annex B
67	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver Blocks	Dimensions Plan area/Wearing face area	IS 15658: 2006
68	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver Blocks	Dimensions Width	IS 15658: 2006 Annex B
69	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve analysis (150 μ – 10 mm)	IS 2386 (Part 1): 1963
70	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3): 1963
71	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3): 1963
72	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS 2386 (Part 3): 1963
73	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Deleterious Material	IS 2386 (Part 1): 1963
74	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Material finer than 75 micron	IS 2386 (Part 1): 1963



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75	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Petrographic Examination	IS 2386 (Part 8): 1963
76	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Air Content	IS 1199 Part 4: 2018
77	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Drying Shrinkage	IS 1199: 1959
78	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Final Setting Time	IS 1199 Part 7: 2018
79	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Flow	IS 1199 Part 2: 2018
80	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Initial Setting Time	IS 1199 Part 7: 2018
81	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Slump	IS 1199 (Part 2): 2018
82	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516: 1959 RA: 2013
83	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Depth of Penetration of Water under Pressure	BS EN 12390-8: 2009
84	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS 516: 1959 RA: 2013



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
85	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Absolute Viscosity	IS 1206: 1978 RA: 2014
86	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Ductility	IS 1208: 1978 RA: 2014
87	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Flash Point	IS 1448 Part 69: 2013
88	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Kinematics Viscosity	IS 1206:1978 RA: 2014
89	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Penetration	IS 1203: 1978 RA: 2014
90	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Softening Point	IS 1205: 1978 RA: 2014
91	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Solubility in Trichloroethylene	IS 1216: 1978 RA: 2014
92	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Specific Gravity	IS 1202:1978 RA: 2019
93	MECHANICAL-BUILDINGS MATERIALS	Pozzolanic materials	Fineness by Blain's method	IS 1727: 1927 RA: 2018
94	MECHANICAL-BUILDINGS MATERIALS	Pulverised Fuel Ash	Consistency	IS 1727: 1967 RA: 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
95	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars for Concrete Reinforcement	Bend Test	IS 1599: 2012
96	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars for Concrete Reinforcement	Elongation	IS 1608: 2018
97	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars for Concrete Reinforcement	Mass per meter	IS 1786: 2008
98	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars for Concrete Reinforcement	Tensile Strength	IS 1608: 2018
99	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars for Concrete Reinforcement	Yield Stress/0.2% Proof Stress	IS 1608: 2018
100	MECHANICAL- SOIL AND ROCK	Rock	Density using Saturation and Buoyancy Techniques	IS 13030: 1991
101	MECHANICAL- SOIL AND ROCK	Rock	Porosity using Saturation and Buoyancy Techniques	IS 13030: 1991
102	MECHANICAL- SOIL AND ROCK	Rock	Specific Gravity	IS 1124: 1974
103	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143: 1979
104	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030: 1991



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
105	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16): 1987
106	MECHANICAL- SOIL AND ROCK	Soil	Classification	IS 1498: 1970
107	MECHANICAL- SOIL AND ROCK	Soil	Consolidation (Cc)	IS 2720 (Part 15): 1965
108	MECHANICAL- SOIL AND ROCK	Soil	Consolidation (Pc)	IS 2720 (Part 15): 1965
109	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Cohesion	IS 2720 (Part 13): 1986
110	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40):1977 RA: 2016
111	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (0.075 mm – 4.75 mm)	IS 2720 (Part 4): 1985 RA: 2015
112	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Hydrometer Analysis) (2µm to 75µm)	IS 2720 (Part 4): 1985 RA: 2015
113	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part 8): 1983
114	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part 8): 1983
115	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 (Part 7): 1980
116	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part 7): 1980
117	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit Cone Penetration Method	IS 2720 (Part 5): 1985
118	MECHANICAL- SOIL AND ROCK	Soil	Permeability by Falling Head Method	IS 2720 (Part 17): 1995



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
119	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5): 1985
120	MECHANICAL- SOIL AND ROCK	Soil	Relative Density	IS 2720 (Part 14): 1983
121	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6): 1972
122	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/Sec1): 1980
123	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part 41): 1985
124	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression	IS 2720 (Part 11): 1993
125	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression (Cohesion)	IS 2720 (Part 11): 1993
126	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Oven Drying Method	IS 2720 (Part 2): 1985



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Site Facility				
1	MECHANICAL- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Cover Meter Test	BS 1881-204: 1988
2	MECHANICAL- BUILDINGS MATERIALS	Flexible Pavement	Benkelmen Beam Deflection	IRC 81: 1997
3	MECHANICAL- BUILDINGS MATERIALS	Highway Pavement	Roughness Index	IRC SP 16: 2004
4	MECHANICAL- SOIL AND ROCK	Bored Cast in-situ Piles	Lateral Load Test	IS 2911 (Part 4): 2013
5	MECHANICAL- SOIL AND ROCK	Bored Cast in-situ Piles	Pull-out Load Test	IS 2911 (Part 4): 2013
6	MECHANICAL- SOIL AND ROCK	Bored Cast in-situ Piles	Vertical Load Test (Compression)	IS 2911 (Part 4): 2013
7	MECHANICAL- SOIL AND ROCK	Field Test	Dynamic Cone Penetration	IS 4968 (Part 1 & 2): 1976 (50mm Cone - 0.5 to 10m)
8	MECHANICAL- SOIL AND ROCK	Field Test	Pull out test on anchor bars and rock bolts	IS 11309:1985 RA: 2016
9	MECHANICAL- SOIL AND ROCK	Field Test	Standard Penetration Test	IS 2131: 1981
10	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 31): 1990
11	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Core Cutting	IS 2720 (Part 29): 1975



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12	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Sand Replacement	IS 2720 (Part 28): 1974
13	MECHANICAL- SOIL AND ROCK	Soil	Modulus of Sub grade Reaction (K-Value)	IS 9214: 1974 RA: 2016
14	MECHANICAL- SOIL AND ROCK	Soil	Plate Load Test	IS 1888: 1982
15	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Rapid Moisture Meter (Calcium Carbide)	IS 2720 (Part 2): 1975; Section 5
16	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete pile	High Strain Dynamic Pile Testing	ASTM D 4945: 2017
17	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete pile	Low Strain Pile Integrity	ASTM D 5882: 2016
18	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Concrete Surface Crack Depth	IS 516 (Part 5 / Sec 1): 2018
19	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Depth of Carbonation	BS EN 14630: 2006



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20	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Depth of Concrete Cover	BS 1881-204: 1988
21	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Half Cell Potential difference	ASTM C 876: 2015
22	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Rebound Hammer	IS 13311 (Part 2): 1992 RA: 2018
23	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Ultrasonic Pulse Velocity	IS 516 (Part 5 / Sec 1): 2018