National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory Name	MICRON ENGINEERING SERVICES, PLOT NO. 16, ROYAL INDUSTRIAL HUB, VALSAD, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-8022	Page No. :	1 / 6
Validity	23/10/2018 to 22/10/2020	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
Permanent Facility					
1	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Bulk Density	IS 2386 (Part-3): 1963, RA: 2016	1.1 kg/l to 3 kg/l
2	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Crushing Value	IS 2386 (Part-4): 1963, RA: 2016	1 % to 60 %
3	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Elongation Index	IS 2386 (Part-1): 1963, RA: 2016	2 % to 40 %
4	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Flakiness Index	IS 2386 (Part-1): 1963, RA: 2016	2 % to 40 %
5	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Impact Value	IS 2386 (Part-4): 1963, RA: 2016	1 % to 60 %
6	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Los Angeles Abrasion Value	IS 2386 (Part-4): 1963, RA: 2016	1 % to 60 %
7	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Sieve Analysis	IS 2386 (Part-1): 1963, RA: 2016	4.75 mm to 125 mm
8	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Soundness	IS 2386 (Part-5): 1963, RA: 2016	0.1 % to 25 %
9	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Specific Gravity	IS 2386 (Part-3): 1963, RA: 2016	2 to 3.5

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10	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Water Absorption	IS 2386 (Part-5): 1963, RA: 2016	0.1 % to 10 %
11	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Bulk Density	IS 2386 (Part-3): 1963, RA: 2016	1.2 kg/l to 3.0 kg/l
12	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Sieve Analysis	IS 2386 (Part-1): 1963, RA: 2016	75 µm to 10 mm
13	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Specific Gravity	IS 2386 (Part-3): 1963, RA: 2016	2.5 to 3.5
14	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Water Absorption	IS 2386 (Part-3): 1963, RA: 2016	0.01 % to 10 %
15	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Part-2): 1978, RA: 2014	2000 Poise/s to 2600 Poise/s
16	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208: 1978, RA: 2014	25 cm to 100 cm
17	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1206 (Part-3): 1978, RA: 2014	300 cSt to 400 cSt
18	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203: 1978, RA: 2014	20 (1/10) mm to 400 (1/10)mm
19	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205: 1978, RA: 2014	40 °C to 55 °C

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20	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202: 1978, RA: 2014	0.99 to 1.102
21	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Binder Content	ASTM D 2172: 2011	1 % to 10 %
22	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Density	ASTM D 2041: 2011	2 g/cc to 3 g/cc
23	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Flow Test	ASTM D 6927: 2006	1 mm to 10 mm
24	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Marshall Stability	ASTM D 6927: 2006	0.1 kN to 25 kN
25	MECHANICAL-BUILDINGS MATERIALS	Brick Clay/ Fly Ash Bricks	Dimension	IS 1077: 1992, RA: 2016	1600 mm to 5000 mm
26	MECHANICAL-BUILDINGS MATERIALS	Brick Clay/ Fly Ash Bricks	Water Absorption	IS 3495 (Part-2): 1992, RA: 2016	2 % to 40 %
27	MECHANICAL-BUILDINGS MATERIALS	Brick Clay/ Fly Ash Bricks	Compressive Strength	IS 3495 (Part-1): 1992, RA: 2016	1 N/mm² to 15 N/mm²
28	MECHANICAL-BUILDINGS MATERIALS	Brick Clay/ Fly Ash Bricks	Effloresence	IS 3495 (Part-3): 1992, RA: 2016	Qualitative
29	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part-6): 1988, RA: 2014	10 N/mm² to 80 N/mm²

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30	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part-4): 1988, RA: 2014	25 % to 40 %
31	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part-5): 1988, RA: 2014	30 Minute to 600 Minute
32	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Specific Surface by Blain air permeability	IS 4031 (Part-2): 1999, RA: 2013	100 m²/kg to 500 m²/kg
33	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part-5): 1988, RA: 2014	10 Minute to 250 Minute
34	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier method	IS 4031 (Part-3): 1988, RA: 2014	0.1 mm to 10 mm
35	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516: 1959, RA: 2013	5 N/mm² to 80 N/mm²
36	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS 516: 1959, RA: 2013	1 N/mm² to 10 N/mm²
37	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658: 2006, RA: 2017	5 N/mm² to 80 N/mm²
38	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658: 2006, RA: 2017	0.5 % to 20 %
39	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part-16): 1987, RA: 2016	1 % to 60 %

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40	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test	IS 2720 (Part-15): 1986, RA: 2016	0.02 % to 0.5 %
41	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (DUU)	IS 2720 (Part-13): 1986, RA: 2016	0.01 kg/cm² to 0.4 kg/cm²
42	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part-10): 1973, RA: 2016	10 % to 100 %
43	MECHANICAL- SOIL AND ROCK	Soil	Grain Size analysis (Wet & Dry analysis)	IS 2720 (Part-4): 1985, RA: 2015	1 % to 100 %
44	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction	IS 2720 (Part-8): 1986, RA: 2015	1.4 g/cc to 2.6 g/cc
45	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer analysis	IS 2720 (Part-4): 1985, RA: 2015	20 % to 80 %
46	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction	IS 2720 (Part-7): 1986, RA: 2016	1 g/cc to 2.1 g/cc
47	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part-5): 1985, RA: 2015	25 % to 80 %
48	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part-5): 1985, RA: 2015	5 % to 50 %
49	MECHANICAL- SOIL AND ROCK	Soil	Relative Density	IS 2720 (Part-14): 1983, RA: 2015	1.1 g/cc to 2.6 g/cc
50	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part-4): 1980, RA: 2015	7 % to 25 %
51	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part-3): 1980, RA: 2016	2.4 to 3.0
52	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part-41): 1977, RA: 2016	0.1 kg/cm² to 2.0 kg/cm²
53	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (Part-10): 1980, RA: 2015	0.1 kg/cm² to 10 kg/cm²

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Site Facility					
1	MECHANICAL- SOIL AND ROCK	Soil Field Test	Dry Density by Core-Cutter Method	IS 2720 (Part-29): 1975, RA: 2015	1.2 g/cc to 2.4 g/cc
2	MECHANICAL- SOIL AND ROCK	Soil Field Test	Dry Density by Sand Replacement Method	IS 2720 (Part-28): 1975, RA: 2015	1.2 g/cc to 2.4 g/cc
3	MECHANICAL- SOIL AND ROCK	Soil Field Test	Field CBR test	IRC 37: 2012	2 % to 50 %