National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATTEST ENGINEERING SERVICES, A-39/40/41, CITY INDUSTRIAL ESTATE, UDHANA-NAVSARI MAIN ROAD, SURAT, GUJARAT, 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	Bitumen	Absolute Viscosity	IS 1206 (Part 2)
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1206 (Part 3)
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1212
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
8	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content	ASTM D2172
9	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Density	ASTM D2726
10	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Flow Test	ASTM D6927
11	MECHANICAL- BUILDINGS MATERIALS	Bitumious Mix	Marshall Stability	ASTM D6927
12	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Brick	Compressive Strength	IS 3495 (Part-1)
13	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Brick	Dimension (Height)	IS 1077
14	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Brick	Dimension (Length)	IS 1077
15	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Brick	Dimension (Width)	IS 1077
16	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Brick	Efflorescence	IS 3495 (Part 3)
17	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Brick	Water Absorption	IS 3495 (Part 2)
18	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6)

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19	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4)
20	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part 11)
21	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5)
22	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Specific Surface by Blaine's air permeability	IS 4031 (Part 2)
23	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5)
24	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier method	IS 4031 (Part 2)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Alkali Aggregate Reactivity (a) Reduction of alkalinity (RC)	IS 2386 (Part 7)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Alkali Aggregate Reactivity (b) Dissolved Silica (SC)	IS 2386 (Part 7)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Loss Angles Abrasion Value	IS 2386 (Part 4)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Size: 4.75 mm to 125 mm)	IS 2386 (Part 1)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness Test by Sodium Sulphate	IS 2386 (Part 5)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Striping Value	IS 6241
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Ten Percent Fines Value	IS 2386 (Part 4)

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
39	MECHANICAL- BUILDINGS MATERIALS	Concrete Manhole Cover & Frame	Dimension	IS 12592
40	MECHANICAL- BUILDINGS MATERIALS	Concrete Manhole Cover & Frame	Permanent set by Load test	IS 12592
41	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Blocks	Abrasion Test	IS 15658
42	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Blocks	Compressive Strength (Annex. C)	IS 15658
43	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Blocks	Water Absorption (Annex. D)	IS 15658
44	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Miscibility of Water	IS 8887
45	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Particle Charge	IS 8887
46	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Penetration	IS 8887
47	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Residue by evaporation at 163 °C, %	IS 8887
48	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Residue on 600 micron is sieve, % by mass	IS 8887
49	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Say bolt Viscosity @ 50 °C	IS 8887
50	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Stability of mixing with Cement	IS 8887
51	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Finer than 75 Micron	IS 2386 (Part 1)
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Sieve Size: 75 micron to 4.75 mm)	IS 2386 (Part 1)
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content	IS 2386 (Part 2):
55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Sodium Sulfate	IS 2386 (Part 5)
56	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)

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57	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
58	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Compressive Strength	IS 3495 (Part-1)
59	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Dimension (Height)	IS 13757
60	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Dimension (Width)	IS 13757
61	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Dimension, (Length)	IS 13757
62	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Efflorescence	IS 3495 (Part-3)
63	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Water Absorption	IS 3495 (Part 2)
64	MECHANICAL- BUILDINGS MATERIALS	Glass Bead	Gradation	IS 2386 (Part-1)
65	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516 (Part 1/Sec 1)
66	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS 516 (part 1/Sec 1)
67	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Split Tensile Strength	IS 5816
68	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars & Reinforcement Bars (8 mm to 32 mm)	Bend Test (Mandrel Diameter: 16,20,24,30,32,36,40,48,50,56 ,64,72,75,80,84,86,96,100,112 ,118,120,125,128,140,150,160 ,175,192,200,224,256 (in mm))	IS 1599
69	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars & Reinforcement Bars (8 mm to 32 mm)	Elongation	IS 1608
70	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars & Reinforcement Bars (8 mm to 32 mm)	Mass per meter	IS 1786
71	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars & Reinforcement Bars (8 mm to 32 mm)	Re-bend Test (Mandrel Diameter: 16,20,24,30,32,36,40,48,50,56 ,64,72,75,80,84,86,96,100,112 ,118,120,125,128,140,150,160 ,175,192,200,224,256 (in mm))	IS 1786
72	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars & Reinforcement Bars (8 mm to 32 mm)	Ultimate Tensile Strength	IS 1608

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73	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars & Reinforcement Bars (8 mm to 32 mm)	Yield Stress	IS 1608
74	MECHANICAL- BUILDINGS MATERIALS	Kerb Stone	Comp. Strength	IS 5758
75	MECHANICAL- BUILDINGS MATERIALS	Kerb Stone	Water Absorption	IS 5758
76	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Binder content	BS 3262 (Part 1)
77	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Cracking Resistance at Low Temperature	AASHTO T-250
78	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Driying Time	AASTHO M 249
79	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Flow Resistance	BS 3262 (Part-1)
80	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Glass Bead Content	BS 3262 (Part-1)
81	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Luminance Test	BS EN 1436
82	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Retro Reflectivity	BS EN 1436
83	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Skid Resitance	ASTM E303
84	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Softening Point	ASTM D36 / D36M
85	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Titanium Dioxide	ASTM D 1394
86	MECHANICAL- BUILDINGS MATERIALS	Vetrified Tiles	Abrasion Resitance	IS 4457
87	MECHANICAL- BUILDINGS MATERIALS	Vetrified Tiles	Acid Resistance	IS 4457
88	MECHANICAL- BUILDINGS MATERIALS	Vetrified Tiles	Breaking Strength	IS 13630 (Part 6)
89	MECHANICAL- BUILDINGS MATERIALS	Vetrified Tiles	Dimension	IS 13630 (Part 1)
90	MECHANICAL- BUILDINGS MATERIALS	Vetrified Tiles	Flexural Strenth	IS 4457
91	MECHANICAL- BUILDINGS MATERIALS	Vetrified Tiles	Water Absorption	IS 4457

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92	MECHANICAL- SOIL AND ROCK	Natural Stone	Point Load Test	IS 8764
93	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
94	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Cc)	IS 2720 (Part 15)
95	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Pc)	IS 2720 (Part 15)
96	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (DUU), (Cohesion)	IS 2720 (Part 13)
97	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (DUU), (Friction Angle)	IS 2720 (Part 13)
98	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
99	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Wet & Dry Analysis)	IS 2720 (Part 4)
100	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part 8)
101	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction, (Density)	IS 2720 (Part 8)
102	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer Analysis	IS 2720 (Part 4)
103	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (Density)	IS 2720 (Part 7)
104	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part 7)
105	MECHANICAL- SOIL AND ROCK	Soil	Liquid limit	IS 2720 (Part 5)
106	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
107	MECHANICAL- SOIL AND ROCK	Soil	Relative Density (Maximum)	IS 2720 (Part 14)
108	MECHANICAL- SOIL AND ROCK	Soil	Relative Density (Minimum)	IS 2720 (Part-14)
109	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 4)
110	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/ Section 1)

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111	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part 41)
112	MECHANICAL- SOIL AND ROCK	Soil	Triaxial (UU) Friction Angle	IS 2720 (Part 11)
113	MECHANICAL- SOIL AND ROCK	Soil	Triaxial (UU), Cohesion	IS 2720 (Part 11)
114	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (Part 10)

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Site Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Sign Board	Co-efficient of retro reflection	ASTM D4956
2	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Luminance Test	BS EN 1436
3	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Retro Reflectivity	BS EN 1436
4	MECHANICAL- SOIL AND ROCK	Bitumen/Rigid Pavement	Bump Integrity	IRC SP 16
5	MECHANICAL- SOIL AND ROCK	Bituminous mix flexible pavement	Falling Weight Deflectometer Test	IRC 115
6	MECHANICAL- SOIL AND ROCK	Soil	Dynamic Cone Penetration Test up to 12 mt of refusal at regular interval (For SBC)	IS 4968 (Part 1)
7	MECHANICAL- SOIL AND ROCK	Soil Field Test	Benkelman Beam Deflection	IRC 81
8	MECHANICAL- SOIL AND ROCK	Soil Field Test	Determination of Dry Density of Soil in Place by Core-Cutter Method	IS 2720 (Part 29)
9	MECHANICAL- SOIL AND ROCK	Soil Field Test	Determination of Dry Density of Soil in Place by Sand Replacement Method	IS 2720 (Part 28)
10	MECHANICAL- SOIL AND ROCK	Soil Field Test	Field CBR Test	IRC 37, ASTM D6951 / D6951M
11	MECHANICAL- SOIL AND ROCK	Soil Field Test	Standard Penetration Test (SBC)	IS 2131
12	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Pile Integrity test	ASTM D 5882
13	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Rebound Hammer Test	IS 516 (Part 5 / sec 4)
14	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Ultrasonic Pulse Velocity Tests	IS 516 (Part 5 / sec 1)