National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : G-ENG MATERIAL TESTING LABORATORY, A SUBSIDIARY OF G-ENG ADVISORY SERVICES PVT. LTD, PLOT EMERALD ESTATE PRIMARY SCHOOL-01 (EEPS-01), SECTOR-65, GURGAON, HARYANA, INDIA

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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	Admixture	Ash content	IS 9103
2	MECHANICAL- BUILDINGS MATERIALS	Admixture	Dry Material content	IS 9103
3	MECHANICAL- BUILDINGS MATERIALS	Admixture	PH value	IS 9103
4	MECHANICAL- BUILDINGS MATERIALS	Admixutre	Reletive Density	IS 9103
5	MECHANICAL- BUILDINGS MATERIALS	Bentonite	Density of Bentonite suspension	IS 6186
6	MECHANICAL- BUILDINGS MATERIALS	Bentonite	Marsh Cone Viscosity	IS 6186
7	MECHANICAL- BUILDINGS MATERIALS	Bentonite	pH	IS 6186
8	MECHANICAL- BUILDINGS MATERIALS	Bentonite	Sand Content	IS 6186
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 Part II
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity (at 135 degree Celsius)	IS 1206 Part III
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration (1/10 of mm)	IS 1203
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Solubility by trichloroethylene	IS 1216
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
17	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Air Voids	MS-2 7th Edition
18	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content by Centrifuge Extraction	IRC SP 11

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19	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content by Centrifuge Extraction method	ASTM 2172
20	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Flow	AASHTO T245
21	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Quotient	MS-2 7th Edition
22	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	AASTHO T245
23	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Theoretical Maximum Specific Gravity (Gmm)	ASTM D2041
24	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mould	Water Sensitivity Retained Tensile Strength	AASTHO 283
25	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay)	Dimensions (Width)	IS 1077
26	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay)	Compressive Strength	IS 3495 (Part-1)
27	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay)	Dimensions (Length)	IS 1077
28	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay)	Dimensions (Thickness)	IS 1077
29	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay)	Water Absorption	IS 3495 (Part-2)
30	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Brick	Efflorescence Test	IS 3495 (Part-3)
31	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength	IS 4031 (Part-6)
32	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Consistancy	IS 4031 (Part-4)
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Final Setting Time	IS 4031 (Part-5)
34	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness(Blaine's method)	IS 4031 (Part-2)
35	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial Setting Time	IS 4031 (Part-5)
36	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness (Le-Chatelier method)	IS 4031 (Part-3)
37	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness By Autoclave Method	Is 4031 (Part-3)

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38	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Specific Gravity	IS 4031 Part 11
39	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Core	Compressive Strength (Cylindrical Strength)	IS 516 (Part-1/Sec.1)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk density	IS 2386 (Part-3)
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Polished Stone Value	IS 2386 Part IV
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping Value	IS 6241
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	10% Fines Value	IS 2386 (Part-4)
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Aggregate Impact Value	IS 2386 (Part-4)
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Aggregates Crushing Value	IS 2386 (Part-4)
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part-1)
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part-1)
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los Angles Abrasion	IS 2386 (Part-4)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (Sieve Size-80.0 mm, 40.0 mm,20.0 mm,10.0 mm, 4.75 mm,2.36 mm)	IS 2386 (Part-1)
50	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (Part-3)
51	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (Part-3)
52	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength of hardened Concrete	IS 516
53	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Ductility at 27 degree Celsius	IS 1208
54	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Penetration 1/10mm (25 Degree Celsius/100g/5 sec.)	IS-1203
55	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Residue by Evaporation	IS 8887

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56	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Residue on 600 micron	IS 8887
57	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Solubility by trichloroethylene	IS 1216
58	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Viscosity by say bolt Viscometer	IS 3117
59	MECHANICAL- BUILDINGS MATERIALS	Fine Aggreagte	Sand Equivalent Value	IS:-2720 Part-37
60	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS 2386 (Part-3)
61	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (Sieve Size-10.0 mm,4.75 mm, 2.36 mm,1.18 mm,600 mic,300 Mic. 150 mic.)	IS 2386 (Part-1)
62	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (Part-3)
63	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part-3)
64	MECHANICAL- BUILDINGS MATERIALS	Flexible/Rigid Pavement	Skid Resistance Test	ASTM 303-93
65	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Retained on 45 Micron (wet sieving)	IS 1727
66	MECHANICAL- BUILDINGS MATERIALS	Fly Ash/ Pond Ash	Sieve Analysis 45 Micron	IS:- 1727
67	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Air Content	IS 1199 Part 4
68	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Setting Time	IS 1199 (Part -7)
69	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS 1199 (Part -2)
70	MECHANICAL- BUILDINGS MATERIALS	Granular Sub-Base (GSB)	Impact Value (Coarse aggregate)	IS 2386 (Part-4)
71	MECHANICAL- BUILDINGS MATERIALS	Granular Sub-Base (GSB)	Sieve Analysis (Fine and Coarse aggregate)	IS 2386 (Part-1)
72	MECHANICAL- BUILDINGS MATERIALS	Granular Sub-Base (GSB)	Water absorption (Fine and Coarse aggregate)	IS 2386 Part-3
73	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Density	IS 516 (Part -2/Sec-1)

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74	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
75	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Height	IS:15658
76	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Length	IS 15658
77	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS:15658
78	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Width	IS:15658
79	MECHANICAL- BUILDINGS MATERIALS	Rigid Pavement	Surface Texture Depth	MoRTH 5th Revision (Cl 602.12)
80	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Paint	Daylight Luminance for White Paint	AASTHO M249
81	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic paint	Daylight Luminance for Yellow Paint	ASSHTO M249
82	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic paint	Drying time	MORTH (Cl. 803.4.1.2)
83	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam	Impact Value (Coarse aggregate)	IS 2386 (Part-4)
84	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam	Water Absorption (Fine and Coarse aggregate)	IS 2386 (Part-3)
85	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam (WMM)	Sieve Analysis (Fine and Coarse aggregate)	IS 2386 (Part-1)
86	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Bar (8mm to 40mm)	Bend Test	IS 1599
87	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Bar (8mm to 40mm)	Re-Bend Test	IS 1786
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Bar (8mm to 40mm)	Yield Strength	IS 1608 Part-1
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Bar(8mm to 40mm)	Elongation %	IS 1608 (Part-1)
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Bar(8mm to 40mm)	Mass (Kg/meter)	IS 1786

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91	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Bar(8mm to 40mm)	Tensile Strength	IS 1608 (Part-1)
92	MECHANICAL- SOIL AND ROCK	Bentonite	Liquid Limit	IS 2720 : Part 5
93	MECHANICAL- SOIL AND ROCK	Clay & Soil	MDD by Light Compaction test	IS 2720 (Part-7)
94	MECHANICAL- SOIL AND ROCK	Clay & Soil	CBR Value	IS 2720 (Part-16)
95	MECHANICAL- SOIL AND ROCK	Clay & Soil	Free Swell Index	IS 2720 (Part-40)
96	MECHANICAL- SOIL AND ROCK	Clay & Soil	Grain Size Analysis (Particle Size Distribution)	IS 2720 (Part-4)
97	MECHANICAL- SOIL AND ROCK	Clay & Soil	Liquid Limit (Atterberg Limit)	IS 2720 (Part-5)
98	MECHANICAL- SOIL AND ROCK	Clay & Soil	MDD by Heavy Compaction test	IS 2720 (Part-8)
99	MECHANICAL- SOIL AND ROCK	Clay & Soil	Moisture Content	IS 2720 (Part-2)
100	MECHANICAL- SOIL AND ROCK	Clay & Soil	OMC by Heavy Compaction test	IS 2720 (Part-8)
101	MECHANICAL- SOIL AND ROCK	Clay & Soil	OMC by Light Compaction	IS 2720 (Part-7)
102	MECHANICAL- SOIL AND ROCK	Clay & Soil	Plastic Limit (Atterberg Limit)	IS 2720 (Part -5)
103	MECHANICAL- SOIL AND ROCK	Clay Soil	Angle of Friction (Ø) Unconsolidated Undrained Triaxial Compression	IS 2720 (Part-11)
104	MECHANICAL- SOIL AND ROCK	Clay Soil	Cohesion (C) Unconfined Compressive Strength	IS 2720 (Part-10)
105	MECHANICAL- SOIL AND ROCK	Clay Soil	Cohesion (C) Unconsolidated Undrained Triaxial Compression Test	IS 2720 (Part-11)
106	MECHANICAL- SOIL AND ROCK	Fly Ash/Pond Ash	Maximum Dry Density(MDD)	IS:-2720 Part-8
107	MECHANICAL- SOIL AND ROCK	Fly Ash/Pond Ash	Optimum Moisture content(OMC)	IS:2720 Part-8
108	MECHANICAL- SOIL AND ROCK	Fly Ash/Pond Ash	Specific Gravity	IS-2720 Part-3/ Section-2

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109	MECHANICAL- SOIL AND ROCK	Granular Sub-Base	Maximum Dry Density (MDD)	IS 2720 Part-8
110	MECHANICAL- SOIL AND ROCK	Granular Sub-Base	Optimum Moisture Content (OMC)	IS 2720 (Part-8)
111	MECHANICAL- SOIL AND ROCK	Granular Sub-Base (GSB)	California Bearing Ratio (CBR)	IS 2720 Part 16
112	MECHANICAL- SOIL AND ROCK	Granular Sub-Base (GSB)	Liquid limit (Atterberg Limit)	IS 2720 Part 5
113	MECHANICAL- SOIL AND ROCK	Granular Sub-Base (GSB)	Plastic Limit (Atterberg Limit)	IS 2720 Part 5
114	MECHANICAL- SOIL AND ROCK	Soil	Angle of Friction (Ø) of soil by Direct Shear Test	IS 2720 (Part-13)
115	MECHANICAL- SOIL AND ROCK	Soil	Cohesion of soil by Direct Shear Test	IS 2720 (Part-13)
116	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis-Hydrometer Method	IS 2720 (Part-4)
117	MECHANICAL- SOIL AND ROCK	Soil	Permeability (Falling Head Method)	IS 2720 (Part-17)
118	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity- Fine Grained Soil	IS 2720 (Part-3/Sec-1)
119	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity-Coarse Grained Soil	IS 2720 (Part-3/Sec-2)
120	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Liquid Limit (Atterberg limit)	IS 2720 (Part-5)
121	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Maximum Dry Density (MDD)	IS 2720 (Part-8)
122	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Optimum Moisture Content (OMC)	IS 2720 (Part-8)
123	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Plastic Limit (Atterberb limit)	IS 2720 (Part-5)
124	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Rebound Hammer test	IS-516(Part-5/Sec-4)
125	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Ultrasonic pulse velocity	IS:516(Part-5 Sec-1)

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Site Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Flexible Pavement	Deflection	IRC 115
2	MECHANICAL- BUILDINGS MATERIALS	Flexible Pavement	Elastic modulus of pavement layer	IRC 115
3	MECHANICAL- BUILDINGS MATERIALS	Flexible/Rigid Pavement	Skid Resistance Test	ASTM 303-93
4	MECHANICAL- BUILDINGS MATERIALS	Pavement Condition (Rigid)	Cracking (Length Measurement) by LCMS(Net work survey Vehicle)	IRC SP 83
5	MECHANICAL- BUILDINGS MATERIALS	Pavement Condition (Rigid)	Cracking (Depth measurement) by LCMS (Net work survey Vehicle)	IRC SP-83
6	MECHANICAL- BUILDINGS MATERIALS	Pavement Condition (Rigid)	Pothole (Area) by LCMS (Net work survey Vehicle)	IRC SP 83
7	MECHANICAL- BUILDINGS MATERIALS	Pavement Condition by LCMS (Flexible Pavement)	Pothole (Depth measurement) by LCMS (Network Survey Vehicle)	IRC 82
8	MECHANICAL- BUILDINGS MATERIALS	Pavement Condition by LCMS (Flexible Pavement)	Rutting by LCMS (Network Survey Vehicle)	IRC 82
9	MECHANICAL- BUILDINGS MATERIALS	Pavement Condition by LCMS(Flexible Pavement)	Cracking (Length measurement) by LCMS (Network Survey Vehicle)	IRC 82
10	MECHANICAL- BUILDINGS MATERIALS	Pavement Condition by LCMS(flexible Pavament)	Cracking (Width measurement) by (LCMS)	IRC 82
11	MECHANICAL- BUILDINGS MATERIALS	Pavement Condition by LCMS(Flexible Pavement)	Cracking (Depth measurement) by Network Survey Vehicle (LCMS)	IRC 82
12	MECHANICAL- BUILDINGS MATERIALS	Pavement Condition by LCMS(Flexible Pavement)	Pothole(Area) by LCMS(Network Survey Vehicle)	IRC 82
13	MECHANICAL- BUILDINGS MATERIALS	Pavement Condition(Rigid)	Cracking (Width Measurement) by LCMS (Net Work Survey Vehicle)	IRC SP 83
14	MECHANICAL- BUILDINGS MATERIALS	Retro Reflection Sheeting	Retro-Reflectivity Entrance Angle -4 Degree Angle Observation Angle 0.2 Degree Angle Observation Angle 0.5 Degree Angle Observation Angle 1.0 Degree Angle	IRC 67

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15	MECHANICAL- BUILDINGS MATERIALS	Rigid Pavement	Deflection	IRC 117
16	MECHANICAL- BUILDINGS MATERIALS	Rigid Pavement	Elastic modulus of concrete	IRC 117
17	MECHANICAL- BUILDINGS MATERIALS	Road Roughness by Laser Profilometer	Roughness Index / International Roughness Index by Network Survey Vehicle	IRC SP 16
18	MECHANICAL- BUILDINGS MATERIALS	Thermo-plastic Paint	Retro-Reflectivity (Road Marking) Day Visibility Qd	IRC 35
19	MECHANICAL- BUILDINGS MATERIALS	Thermo-Plastic Paint	Retro-Reflectivity RL (Night Visibility)	IRC 35
20	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Paint	Daylight Luminance for White Paint	AASTHO M249
21	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic paint	Daylight Luminance for Yellow Paint	ASSHTO M249
22	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Rebound Hammer test	IS-516(Part-5/Sec-4)
23	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Ultrasonic pulse velocity	IS:516(Part-5 Sec-1)
24	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Structural Pile	In-Situ Depth	IS:14893