



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

EDGE2 ENGINEERING SOLUTIONS INDIA PRIVATE LIMITED, SHIVAGANGA ARCADE, NO. B35/130,
6TH CROSS, 6TH BLOCK, VISHWESHRAIAH LAYOUT, BENGALURU, KARNATAKA, 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 Testing				
1	CHEMICAL- BUILDING MATERIAL	Admixture (Construction Purpose)	pH Value	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture (Construction Purpose)	Ash Content	IS 9103
3	CHEMICAL- BUILDING MATERIAL	Admixture (Construction Purpose)	Chloride Ion Concentration (Gravimetric Method)	IS 6925
4	CHEMICAL- BUILDING MATERIAL	Admixture (Construction Purpose)	Chloride Ion Concentration (Volumetric Method)	IS 6925
5	CHEMICAL- BUILDING MATERIAL	Admixture (Construction Purpose)	Dry Material Content	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Admixture (Construction Purpose)	Relative Density of Liquid Admixture	IS 9103
7	CHEMICAL- BUILDING MATERIAL	Cement (PPC)	Alkali Content	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement (PPC)	Chloride Content	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement (PPC)	Insoluble Residue	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement (PPC)	Magnesia as MgO (EDTA Method)	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement (PPC)	Sulphuric Anhydride as SO ₃	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement (PPC)	Loss On Ignition	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement (PSC)	Manganic Oxide as Mn ₂ O ₃	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement(OPC, SRPC,RHPC & PSC)	Alumina as Al ₂ O ₃ (EDTA Method)	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Cement(OPC, SRPC,RHPC & PSC)	Calcium Oxide as CaO (EDTA Method)	IS 4032



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16	CHEMICAL- BUILDING MATERIAL	Cement(OPC, SRPC,RHPC & PSC)	Chloride Content	IS 4032
17	CHEMICAL- BUILDING MATERIAL	Cement(OPC, SRPC,RHPC & PSC)	Combined R2O3	IS 4032
18	CHEMICAL- BUILDING MATERIAL	Cement(OPC, SRPC,RHPC & PSC)	Ferric Oxide as Fe2O3 (EDTA Method)	IS 4032
19	CHEMICAL- BUILDING MATERIAL	Cement(OPC, SRPC,RHPC & PSC)	Insoluble Residue	IS 4032
20	CHEMICAL- BUILDING MATERIAL	Cement(OPC, SRPC,RHPC & PSC)	Loss On Ignition	IS 4032
21	CHEMICAL- BUILDING MATERIAL	Cement(OPC, SRPC,RHPC & PSC)	Magnesia as MgO (EDTA Method)	IS 4032
22	CHEMICAL- BUILDING MATERIAL	Cement(OPC, SRPC,RHPC & PSC)	Silica as SiO2	IS 4032
23	CHEMICAL- BUILDING MATERIAL	Cement(OPC, SRPC,RHPC & PSC)	Sulphuric Anhydride as SO3	IS 4032
24	CHEMICAL- BUILDING MATERIAL	Cement(PSC)	Sulphur as Sulphide	IS 4032
25	CHEMICAL- BUILDING MATERIAL	Coarse & Fine Aggregate	Chloride Ion Concentration	BN EN 1744 (part 1)
26	CHEMICAL- BUILDING MATERIAL	Coarse & Fine Aggregate	Estimation of Deleterious Materials (LIGHT-WEIGHT PIECES)	IS 2386 (Part 2)
27	CHEMICAL- BUILDING MATERIAL	Coarse & Fine Aggregate	Organic Impurities	IS 2386 (Part 2)
28	CHEMICAL- BUILDING MATERIAL	Coarse & Fine Aggregate	Sulphate Content as SO3	BS EN 1744 (Part 1)
29	CHEMICAL- BUILDING MATERIAL	GGBS	Alkali Content	IS 4032
30	CHEMICAL- BUILDING MATERIAL	GGBS	Alumina as Al2O3 (EDTA Method)	IS 4032
31	CHEMICAL- BUILDING MATERIAL	GGBS	Calcium Oxide as CaO (EDTA Method)	IS 4032



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32	CHEMICAL- BUILDING MATERIAL	GGBS	Chloride Content	IS 4032
33	CHEMICAL- BUILDING MATERIAL	GGBS	Combined R2O3	IS 4032
34	CHEMICAL- BUILDING MATERIAL	GGBS	Ferric Oxide as Fe2O3 (EDTA Method)	IS 4032
35	CHEMICAL- BUILDING MATERIAL	GGBS	Insoluble Residue	IS 4032
36	CHEMICAL- BUILDING MATERIAL	GGBS	Loss On Ignition	IS 4032
37	CHEMICAL- BUILDING MATERIAL	GGBS	Magnesia as MgO (EDTA Method)	IS 4032
38	CHEMICAL- BUILDING MATERIAL	GGBS	Manganic Oxide as Mn2O3	IS 4032
39	CHEMICAL- BUILDING MATERIAL	GGBS	Moisture Content	IS 16714 (Annex B)
40	CHEMICAL- BUILDING MATERIAL	GGBS	Silica as SiO2	IS 4032
41	CHEMICAL- BUILDING MATERIAL	GGBS	Sulphuric Anhydride as SO3	IS 4032
42	CHEMICAL- METALS & ALLOYS	Steel	Carbon	IS 8811
43	CHEMICAL- METALS & ALLOYS	Steel	Manganese	IS 8811
44	CHEMICAL- METALS & ALLOYS	Steel	Phosphorous	IS 8811
45	CHEMICAL- METALS & ALLOYS	Steel	Silicon	IS 8811
46	CHEMICAL- METALS & ALLOYS	Steel	Sulphur	IS 8811
47	CHEMICAL- SOIL AND ROCK	Soil	Calcium Carbonate	IS 2720 (Part 23)



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48	CHEMICAL- SOIL AND ROCK	Soil	Chloride Content (Acid Soluble Method)	BS 1377 (Part 3)
49	CHEMICAL- SOIL AND ROCK	Soil	Chloride Content (Water Soluble Method)	BS 1377 (Part 3)
50	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	IS 2720 (Part 22)
51	CHEMICAL- SOIL AND ROCK	Soil	pH Value	IS 2720 (Part 26)
52	CHEMICAL- SOIL AND ROCK	Soil	Total Soluble Solids (Gravimetric Method)	IS 2720 (Part 21)
53	CHEMICAL- SOIL AND ROCK	Soil	Total Soluble Sulphate (Gravimetric Method)	IS 2720 (Part 27)
54	CHEMICAL- WATER	Water for construction purpose	Chloride Content	IS 3025 (Part 32)
55	CHEMICAL- WATER	Water for construction purpose	Inorganic Matter	IS 3025 (Part 18)
56	CHEMICAL- WATER	Water for construction purpose	Organic Matter	IS 3025 (Part 18)
57	CHEMICAL- WATER	Water for construction purpose	pH Vale	IS 3025 (Part 11)
58	CHEMICAL- WATER	Water for construction purpose	Sulphate Content as SO ₃	IS 3025 (Part 24 / Sec 1 & 2)
59	CHEMICAL- WATER	Water for construction purpose	Total Dissolved Solids	IS 3025 (Part 16)
60	CHEMICAL- WATER	Water for construction purpose	Total Hardness	IS 3025 (Part 21)
61	CHEMICAL- WATER	Water for construction purpose	Total Solids	IS 3025 (Part 15)
62	CHEMICAL- WATER	Water for construction purpose	Total Suspended Solids (Gravimetric Method)	IS 3025 (Part 17)
63	CHEMICAL- WATER	Water for construction purpose	Volume of 0.02 N H ₂ SO ₄ required to neutralize 100ml sample using Mixed indicator as an indicator.	IS 3025 (Part 23)
64	CHEMICAL- WATER	Water for construction purpose	Volume of 0.02 N NaOH required to neutralize 100ml sample using Phenolphthalein as an indicator.	IS 3025 (Part 22)



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65	MECHANICAL-BUILDINGS MATERIALS	Accelerated Curing Test	Compressive Strength	IS 9013
66	MECHANICAL-BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (Part 1)
67	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions-Height	IS 1077
68	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions-Length	IS 1077
69	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions-Width	IS 1077
70	MECHANICAL-BUILDINGS MATERIALS	Bricks	Eforescence	IS 3495 (Part 3)
71	MECHANICAL-BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2)
72	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength	IS 4031 (Part 6)
73	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Density	IS 4031 (Part 11)
74	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by Blains Method	IS 4031 (Part 2)
75	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by 90 mic Dry Sieving Method	IS 4031 (Part 1)
76	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Normal Consistency	IS 4031 (Part 4)



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77	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Setting Time Final	IS 4031 (Part 5)
78	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Setting Time Initial	IS 4031 (Part 5)
79	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Le Chatelier's apparatus	IS 4031 (Part 3)
80	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 4)
81	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Crushing Value	IS 2386 (Part 4)
82	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS 2386 (Part 4)
83	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density-Loose	IS 2386 (Part 3)
84	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density-Rodded	IS 2386 (Part 3)
85	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
86	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
87	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Materials Finer than 75µm Sieve	IS 2386 (Part 1)
88	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (100mm to 4.75mm)	IS 2386 (Part 1)



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89	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
90	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
91	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density-Loose	IS 2386 (Part 3)
92	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density-Rodded	IS 2386 (Part 3)
93	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Materials finer than 75µm Sieve	IS 2386 (Part 1)
94	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (10mm to 150µm)	IS 2386 (Part 1)
95	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
96	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
97	MECHANICAL-BUILDINGS MATERIALS	GGBS	Density	IS 4031 (Part 11)
98	MECHANICAL-BUILDINGS MATERIALS	GGBS	Fineness by 45 mic wet Sieving method	IS 1727
99	MECHANICAL-BUILDINGS MATERIALS	GGBS	Fineness by Blain's Method	IS 4031 (Part 2)
100	MECHANICAL-BUILDINGS MATERIALS	GGBS	Slag Activity Index	IS 4031 (Part 6)



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101	MECHANICAL-BUILDINGS MATERIALS	Granular Sub Base	Heavy Compaction-MDD	IS 2720 (Part 8)
102	MECHANICAL-BUILDINGS MATERIALS	Granular Sub Base	Heavy Compaction-OMC	IS 2720 (Part 8)
103	MECHANICAL-BUILDINGS MATERIALS	Granular Sub Base	Impact Value	IS 2386 (Part 4)
104	MECHANICAL-BUILDINGS MATERIALS	Granular Sub Base	Liquid Limit	IS 2720 (Part 5)
105	MECHANICAL-BUILDINGS MATERIALS	Granular Sub Base	Plastic Index	IS 2720 (Part 5)
106	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete (Core)	Compressive Strength	IS 516 (Part 4)
107	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete (Cube)	Compressive Strength	IS 516 (Part 1 / Sec 1)
108	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Bend Test (16, 20, 24, 30, 32, 36, 40, 48, 50, 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 108, 112, 120, 125, 128, 140, 150, 160, 175, 180, 192, 200, 224, 225, 240, 256, 280, 288, 320, 360 mm)	IS 1599
109	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Elongation	IS 1608
110	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Mass per Meter	IS 1786



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111	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Re-Bend Test (16, 20, 24, 30, 32, 36, 40, 48, 50, 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 108, 112, 120, 125, 128, 140, 150, 160, 175, 180, 192, 200, 224, 225, 240, 256, 280, 288, 320, 360 mm)	IS 1786
112	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Ultimate Tensile Strength	IS 1608 (Part 1)
113	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Yield Strength	IS 1608 (Part 1)
114	MECHANICAL-BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658
115	MECHANICAL-BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
116	MECHANICAL-BUILDINGS MATERIALS	Solid & Hollow Blocks	Block Density	IS 2185 (Part 1)
117	MECHANICAL-BUILDINGS MATERIALS	Solid & Hollow Blocks	Compressive Strength	IS 2185 (Part 1)
118	MECHANICAL-BUILDINGS MATERIALS	Solid & Hollow Blocks	Water Absorption	IS 2185 (Part 1)
119	MECHANICAL-BUILDINGS MATERIALS	Wet Mix Macadam	Heavy Compaction-MDD	IS 2720 (Part 8)
120	MECHANICAL-BUILDINGS MATERIALS	Wet Mix Macadam	Heavy Compaction-OMC	IS 2720 (Part 8)



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121	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam	Impact Value	IS 2386 (Part 4)
122	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam	Liquid Limit	IS 2720 (Part 5)
123	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam	Plastic Index	IS 2720 (Part 5)
124	MECHANICAL- SOIL- BASIC	Soil	California Bearing Ratio Test	IS 2720 (Part 16)
125	MECHANICAL- SOIL- BASIC	Soil	Direct Shear Test - Angle of Internal friction - Undrained	IS 2720 (Part 13)
126	MECHANICAL- SOIL- BASIC	Soil	Direct Shear Test - Cohesion - Undrained	IS 2720 (Part 13)
127	MECHANICAL- SOIL- BASIC	Soil	Free Swell Index	IS 2720 (Part 40)
128	MECHANICAL- SOIL- BASIC	Soil	Grain Size Analysis (0.075mm to 4.75mm)	IS 2720 (Part 4)
129	MECHANICAL- SOIL- BASIC	Soil	Heavy Compaction-MDD	IS 2720 (Part 8)
130	MECHANICAL- SOIL- BASIC	Soil	Heavy Compaction-OMC	IS 2720 (Part 8)
131	MECHANICAL- SOIL- BASIC	Soil	Light Compaction-MDD	IS 2720 (Part 7)
132	MECHANICAL- SOIL- BASIC	Soil	Light Compaction-OMC	IS 2720 (Part 7)
133	MECHANICAL- SOIL- BASIC	Soil	Liquid Limit	IS 2720 (Part 5)
134	MECHANICAL- SOIL- BASIC	Soil	Particle Size Analysis by Hydrometer Method	IS 2720 (Part 4)
135	MECHANICAL- SOIL- BASIC	Soil	Plastic Limit	IS 2720 (Part 5)



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136	MECHANICAL- SOIL- BASIC	Soil	Specific Gravity	IS 2720 (Part 3 / sec 1)
137	MECHANICAL- SOIL- BASIC	Soil	Water Content - Oven Drying method	IS 2720 (Part 2)



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Site Testing				
1	MECHANICAL-BUILDINGS MATERIALS	Granular Sub Base	Field Density by Sand Replacement Method	IS 2720 (Part 28)
2	MECHANICAL-BUILDINGS MATERIALS	GSB	Field Density by Sand replacement method	IS 2720 (Part 28)
3	MECHANICAL-BUILDINGS MATERIALS	Wet Mix MAcadam	Field Density by Sand Replacement Method	IS 2720 (Part 28)
4	MECHANICAL-BUILDINGS MATERIALS	WMM	Field Density by Sand Replacement Method	IS 2720 (Part 28)
5	MECHANICAL- SOIL-FIELD	Soil	Field Density by Core Cutter Method	Is 2720 (Part 29)
6	MECHANICAL- SOIL-FIELD	Soil	Field Density by Sand Replacement Method	IS 2720 (Part 28)
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Harden Concrete	Carbonation Depth Test	IS 516 (Part 5 / Sec 3)
8	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Half Cell Potential Difference Test	IS 516 (Part 5 / Sec 2)
9	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Rebound Hammer	IS 516 (Part 5 / Sec 4)



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10	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Ultrasonic Pulse Velocity Test	IS 516 (Part 5 / Sec 1)