



### Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:** EMES Laboratory Private Limited **Page No. 1 of 13**

**Address:** House no.04, Vidhya Sagar Dham, Khejda Road, Maholi,

Bhanpur, Bhopal - 462101, Madhya Pradesh

**Certificate No.:** T-0028

**Issue date :** 16.10.2025

**Validity :** 15.10.2029

**Amendment date:** N/A

S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
<b>Discipline: Mechanical, Group: Buildings Materials</b>					
1	Coarse Aggregate	Deleterious Material and organic Impurities	0.01 % to 5.00 %	IS 2386 Part 2	Permanent
2	Coarse Aggregate	10 % Fine Value	40 KN to 150 KN	IS 2386 Part 4	Permanent
3	Coarse Aggregate	Aggregate Impact Value	5 % to 40 %	IS 2386 (Part 4)	Permanent
4	Coarse Aggregate	Bulk Density	1.2 kg/L to 3 kg/L	IS 2836 (Part 3)	Permanent
5	Coarse Aggregate	Crushing Value	5 % to 60 %	IS 2386 (Part 4)	Permanent
6	Coarse Aggregate	Elongation Index	5 % to 60 %	IS 2386 (Part 1)	Permanent
7	Coarse Aggregate	Flakiness Index	5 % to 60 %	IS 2386 (Part 1)	Permanent
8	Coarse Aggregate	Percentage of Void	0.01 % to 75 %	IS 2386 (Part - 3)	Permanent
9	Coarse Aggregate	Sieve Analysis	0 % to 100 %	IS 2386 (Part 1)	Permanent
10	Coarse Aggregate	Soundness by magnesium Sulphate	0.01 % to 30 %	IS 2386 Part 5	Permanent
11	Coarse Aggregate	Soundness by Sodium Sulphate	0.01 % to 30 %	IS 2386 Part 5	Permanent



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12	Coarse Aggregate	Specific Gravity	2 to 4.00	IS 2386 (Part 3)	Permanent
13	Coarse Aggregate	Stripping Value	0.1 % to 10 %	IS 6241	Permanent
14	Coarse Aggregate	Water Absorption	0.1 % to 10 %	IS 2386 (Part 3)	Permanent
15	Fine Aggregate	Deleterious Material and Organic Impurities	0.01 % to 5.00	IS 2386 Part 2	Permanent
16	Fine Aggregate	Bulk Density	1.2 kg/L to 3.0 kg/L	IS 2386 (Part 3)	Permanent
17	Fine Aggregate	Bulking of Sand	1 % to 30 %	IS 2386 (Part 3)	Permanent
18	Fine Aggregate	Material Finer than 75 $\mu$ m	0.1 % to 100.00 %	IS 2386 Part 1	Permanent
19	Fine Aggregate	Percentage of Voids	0.1 % to 75 %	IS 2386 Part 3	Permanent
20	Fine Aggregate	Sieve Analysis	0% to 100 %	IS 2386 (Part 1)	Permanent
21	Fine Aggregate	Silt Content	0.01 % to 20.00 %	CPWD Specification Vol-1	Permanent
22	Fine Aggregate	Soundness by Magnesium Sulphate	0.01 % to 30.00 %	IS 2386 Part 5	Permanent
23	Fine Aggregate	Soundness by Sodium Sulphate	0.01 % to 30.00 %	IS 2386 Part 5	Permanent
24	Fine Aggregate	Specific Gravity	2 to 4	IS 2386 (Part 3)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
25	Fine Aggregate	Surface Moisture Content	0.1 % to 30 %	IS 2386 (Part 3)	Permanent
26	Fine Aggregate	Water Absorption	0.1 % to 5 %	IS 2386 (Part 3)	Permanent
27	Bitumen/ Modified Bitumen/Industrial Bitumen	Ductility test	15 cm to 80 cm	IS1208	Permanent
28	Bitumen/ Modified Bitumen/Industrial Bitumen	Fire Point	150 °C to 350 °C	IS 1209	Permanent
29	Bitumen/ Modified Bitumen/Industrial Bitumen	Flash Point	150 °C to 350 °C	IS 1209	Permanent
30	Bitumen/ Modified Bitumen/Industrial Bitumen	Penetration test	10 dmm to 90 dmm	IS1203	Permanent
31	Bitumen/ Modified Bitumen/Industrial Bitumen	Softening Point test	20 °C to 70 °C	IS1205	Permanent
32	Bitumen/ Modified Bitumen/Industrial Bitumen	Specific Gravity	0.5 to 2	IS 1202	Permanent
33	Bitumen/ Modified Bitumen/Industrial Bitumen	Water Content	0.01 % to 3.00 %	IS 1211	Permanent
34	Bitumen Emulsion	Coating ability	Qualitative	IS8887 Annex F	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
35	Bitumen Emulsion	Residue by Evaporation	30 % to 80 %	IS8887 Annex J	Permanent
36	Bitumen Emulsion	Residue on 600 $\mu$	0.01 % to 5 %	IS8887	Permanent
37	Bitumen Emulsion	Stability to mixing with cement	0.01 % to 3 %	IS8887 Annex G	Permanent
38	Bitumen Emulsion	Water Miscibility	0.01 % to 20 %	IS8887 Annex H	Permanent
39	Bituminous Mix/Bituminous Macadam/Dense Bituminous Macadam	Bitumen Extraction	1 % to 10 %	ASTM D2172	Permanent
40	Bituminous Mix/Bituminous Macadam/Dense Bituminous Macadam	Bulk Density	2.0 g/cc to 4.0 g/cc	ASTM D2726	Permanent
41	Bituminous Mix/Bituminous Macadam/Dense Bituminous Macadam	Flow	1 mm to 6 mm	ASTM D6927	Permanent
42	Bituminous Mix/Bituminous Macadam/Dense Bituminous Macadam	Marshal Stability	7 KN to 16 KN	ASTM D6927	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
43	Autoclaved Cellular concrete	Bulk Density	400 Kg/m3 to 1200 Kg/m3	IS 6441 Part 1	Permanent
44	Autoclaved Cellular concrete	Compressive Strength	0.5 N/mm2 to 10 N/mm2	IS 6441 Part 5	Permanent
45	Autoclaved Cellular concrete	Dimension (Height)	90 mm to 220 mm	IS 2185 Part 3	Permanent
46	Autoclaved Cellular concrete	Dimension (Length)	100 mm to 1000 mm	IS 2185 Part 3	Permanent
47	Autoclaved Cellular concrete	Dimension (Width)	90 mm to 220 mm	IS 2185 Part 3	Permanent
48	Autoclaved Cellular concrete	Moisture Content	1 % to 30 %	IS 6441 Part 1	Permanent
49	Precast Concrete Paving Blocks	Dimension (Width)	100 mm to 500 mm	IS 15658	Permanent
50	Precast Concrete Paving Blocks	Compressive Strength	10 N/mm2 to 80 N/mm2	IS 15658	Permanent
51	Precast Concrete Paving Blocks	Dimension (Length)	100 mm to 500 mm	IS 15656	Permanent
52	Precast Concrete Paving Blocks	Dimension (Thickness)	40 mm to 120 mm	IS 15658	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
53	Precast Concrete Paving Blocks	Visual Inspection	Qualitative	IS 15658	Permanent
54	Precast Concrete Paving Blocks	Water Absorption	1 % to 20 %	IS 15658	Permanent
55	Burnt Clay Building Bricks	Compressive Strength	2 N/mm <sup>2</sup> to 25 N/mm <sup>2</sup>	IS 3495 (Part 1)	Permanent
56	Burnt Clay Building Bricks	Dimension (Height)	640mm to 1850mm	IS 1077	Permanent
57	Burnt Clay Building Bricks	Dimension (Length)	3600mm to 4700mm	IS 1077	Permanent
58	Burnt Clay Building Bricks	Dimensions (Width)	1700 mm to 2200 mm	IS 1077	Permanent
59	Burnt Clay Building Bricks	Efflorescence	Qualitative	IS 3495 (Part 3)	Permanent
60	Burnt Clay Building Bricks	water Absorption	1.00 % to 20 %	IS 3495 (Part 2)	Permanent
61	Fresh Concrete	Slump Test	5 mm to 250 mm	IS 1199 Part 2	Permanent
62	Hardened Concrete	Core Compressive Strength	10 N/MM <sup>2</sup> to 80 N/MM <sup>2</sup>	IS 516	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
63	Hardness Concrete	Compressive Strength - Cube	1 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>	IS 516	Permanent
64	Door	Dimension (Length)	1500 mm to 2500 mm	IS 4020 Part 2	Permanent
65	Door	Dimension (Thickness)	20 mm to 60 mm	IS 4020 Part 2	Permanent
66	Door	Dimension (Width)	700 mm to 1200 mm	IS 4020 Part 2	Permanent
67	Door	End Immersion Test	Qualitative	IS 4020 Part 13	Permanent
68	Door	Knife Test	Qualitative	IS 4020 Part 14	Permanent
69	Fly Ash (Pozzolana)	Fineness By Dry Sieving	5 % to 50 %	IS 1727	Permanent
70	Ordinary Portland Cement (33, 43,53 Grades)	Compressive Strength	5 N/mm <sup>2</sup> to 60 N/mm <sup>2</sup>	IS 4031 (Part-6)	Permanent
71	Ordinary Portland Cement (33, 43,53 Grades)	Density	2.90 g/cc to 3.35 g/cc	IS 4031 (Part-11)	Permanent
72	Ordinary Portland Cement (33, 43,53 Grades)	Initial Setting Time	30 minutes to 300 minutes	IS 4031 (Part-5)	Permanent
73	Ordinary Portland Cement (33, 43,53 Grades)	Final Setting Time	100 minutes to 600 minutes	IS 4031 (Part-5)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
74	Ordinary Portland Cement (33, 43,53 Grades)	Fineness by Blaine Air permeability method	200 m <sup>2</sup> /kg to 390 m <sup>2</sup> /kg	IS 4031 (Part-2)	Permanent
75	Ordinary Portland Cement (33, 43,53 Grades)	Fineness by dry sieving	0.1 % to 10 %	IS 4031 (Part-1)	Permanent
76	Ordinary Portland Cement (33, 43,53 Grades)	Soundness (by Le-chatelier method)	1.5 mm to 10 mm	IS 4031 (Part-3)	Permanent
77	Ordinary Portland Cement (33, 43,53 Grades)	Standard Consistency	20 % to 40 %	IS 4031 (Part-4)	Permanent
78	Portland Pozzolana Cement (Fly Ash Based)	Compressive Strength	5 N/mm <sup>2</sup> to 60 N/mm <sup>2</sup>	IS 4031 (Part-6)	Permanent
79	Portland Pozzolana Cement (Fly Ash Based)	Density	2.85 g/cc to 3.10 g/cc	IS 4031 (Part-11)	Permanent
80	Portland Pozzolana Cement (Fly Ash Based)	Final Setting Time	100 minutes to 600 minutes	IS 4031 (Part-5)	Permanent
81	Portland Pozzolana	Fineness by Blaine Air permeability method	280 m <sup>2</sup> /kg to 360 m <sup>2</sup> /kg	IS 4031 (Part-2)	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	Cement (Fly Ash Based)				
82	Portland Pozzolana Cement (Fly Ash Based)	Fineness by dry sieving	0.1 % to 10 %	IS 4031 (Part-1)	Permanent
83	Portland Pozzolana Cement (Fly Ash Based)	Initial Setting Time	30 minutes to 300 minutes	IS 4031 (Part-5)	Permanent
84	Portland Pozzolana Cement (Fly Ash Based)	Soundness (by Le-chatelier method)	1.5 mm to 10 mm	IS 4031 (Part-3)	Permanent
85	Portland Pozzolana Cement (Fly Ash Based)	Standard Consistency	20 % to 40 %	IS 4031 (Part-4)	Permanent
86	Pulverised Fuel Ash Lime Bricks	Compressive Strength	1 N/mm <sup>2</sup> to 25 N/mm <sup>2</sup>	IS 3495 (Part 1)	Permanent
87	Pulverised Fuel Ash Lime Bricks	Dimensions (height)	640mm to 1850mm	IS 12894	Permanent
88	Pulverised Fuel Ash Lime Bricks	Dimensions (Length)	3600mm to 4700mm	IS 12894	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
89	Pulverised Fuel Ash Lime Bricks	Dimensions (Width)	1700 mm to 2200 mm	IS 12894	Permanent
90	Pulverised Fuel Ash Lime Bricks	Efflorescence	Qualitative	IS 3495 (Part 3)	Permanent
91	Pulverised Fuel Ash Lime Bricks	Water Absorption	1 % to 20 %	IS 3495 (Part 2)	Permanent
92	Reinforcement - Steel	0.2% Proof Stress	100 N/mm <sup>2</sup> to 700 N/mm <sup>2</sup>	IS:1608 Part 1	Permanent
93	Reinforcement - Steel	Bend Test	Qualitative: (16mm,20mm,24mm,30mm,40mm,48mm,50mm,56mm,60mm,64mm,7Dmm,72mm,75mm,80mm,84mm,100mm,112mm,120mm,125mm,140mm,150mm,175mm,200mm)	IS:1599	Permanent
94	Reinforcement - Steel	Elongation	0.5 % to 50 %	IS:1608 Part 1	Permanent
95	Reinforcement - Steel	Mass per meter	0.01 kg/m to 20 kg/m	IS:1786	Permanent
96	Reinforcement - Steel	Rebend Test	Qualitative	IS:1786	Permanent



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S. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
97	Reinforcement - Steel	Tensile Strength	100 N/mm <sup>2</sup> to 700 N/mm <sup>2</sup>	IS:1608 Part 1	Permanent
98	Cement Concrete Tile	Water Absorption	1.00 % to 10.00 %	IS 1237	Permanent
99	Cement Concrete Tiles	DETERMINATION OF PERPENDICULARITY	Qualitative	IS 13801	Permanent
100	Cement Concrete Tiles	FLATNESS OF TILE SURFACE	Qualitative	IS 13801	Permanent
101	Vetrified /Ceramic Tiles	Dimension (Width)	100 mm to 400 mm	IS 13630 Part 1	Permanent
102	Vitrified /Ceramic Tiles	Dimension (thickness)	5 mm to 30 mm	IS 13630 Part 1	Permanent
103	Vitrified /Ceramic Tiles	Dimension (Length)	100 mm to 400 mm	IS 13630 Part 1	Permanent
104	Vitrified /Ceramic Tiles	Water Absorption	1.00 % to 25.0 %	IS 13630 Part 2	Permanent

**Discipline: Mechanical, Group: Soil and Rocks**

105	Soil	CBR	1 % to 50 %	IS 2720 Part 16	Permanent
106	Soil	Direct Shear (Angle)	5 Degree to 50 Degree	IS 2720 Part 13	Permanent
107	Soil	Direct Shear Cohesion Value	0.5 Kg/cm <sup>2</sup> to 15 Kg/cm <sup>2</sup>	IS 2720 Part 13	Permanent
108	Soil	Free Swell Index	5 % to 70 %	IS 2720 (Part 40)	Permanent



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109	Soil	Grain Size Analysis (0.075 to 4.75 mm) Range upto 100% MU	0 % to 100 %	IS 2720 (Part 4)	Permanent
110	Soil	Heavy Compaction - Maximum Dry Density	1.5 g/cc to 2.5 g/cc	IS 2720 Part 8	Permanent
111	Soil	Heavy Compaction- Optimum Moisture Content	1 % to 18 %	IS 2720 Part 8	Permanent
112	Soil	Light Compaction - Maximum Dry Density	1.40 g/cc to 2.50 g/cc	IS 27201 (Part 7)	Permanent
113	Soil	Light Compaction - Optimum Moisture Content	4 % to 18 %	IS 2720 (Part 7)	Permanent
114	Soil	Liquid Limit	10 % to 80 %	IS 2720 (Part 5)	Permanent
115	Soil	Plastic Limit	5 % to 50 %	IS 2720 (Part 5)	Permanent
116	Soil	Shrinkage Limit	1 % to 20 %	IS 2720 (Part 6)	Permanent
117	Soil	Specific Gravity	2 % to 3.00 %	IS 2720 (Part-3/Sec-2):	Permanent
118	Soil	Water Content	1 % to 30 %	IS 2720 Part 2	Permanent
119	Rock	Specific Gravity	2 to 4	IS 1122	Permanent
120	Rock	Unconfined compressive Strength	10 N/mm <sup>2</sup> to 500 N/mm <sup>2</sup>	IS 9143	Permanent
121	Rock	Water Content	0.1 % to 10.0 %	IS 13030	Permanent



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122	Soil Testing Field	Field Dry Density By Core Cutter Method	1.5 g/cc to 2.5 g/cc	IS 2720 Part 29	Site
123	Soil Testing Field	Dry Density by Sand Replacement - Small Pouring Cylinder Range 1.40 to 2.21 g/cc MU	1.4 g/cc to 2.21 g/cc	IS 2720 (Part 28)	Site

**Discipline: Non-destructive, Group: Building Materials – Reinforced Concrete Structures**

124	Reinforced Concrete Structures	Rebound Hammer Test	Qualitative	IS: 516 Part5/Sec 4	Site
125	Reinforced Concrete Structures	Ultrasonic Pulse Velocity Tests	10 N/mm <sup>2</sup> to 50 N/mm <sup>2</sup>	IS :516 (PART-5) SEC1	Site



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