



Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

CAB Name: EKAM VENTURE

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Address: Survey No. 132, Mahalaxmi Lawns, Nagar Road,
Lohegaon, Pune - 411047, Maharashtra

Certificate No.: T-0015

Issue date: 24.06.2025

Validity : 23.06.2029

Amendment date: N/A

Sr. No.	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Standard specifications/ Equipment/Techniques used	Range of measurement	Facility
Chemical Testing - Building Material					
1	Coarse Aggregates	Soundness by Magnesium Sulphate (MgSo4)	IS 2386 (Part 5)	1 % - 30 %	Permanent
2	Coarse Aggregates	Soundness by Sodium Sulphate (Na2So4)	IS 2386 (Part 5)	1 % - 30 %	Permanent
3	Fine Aggregates	Soundness by Magnesium Sulphate (MgSo4)	IS 2386 (Part 5)	0.1 % to 10 %	Permanent
4	Fine Aggregates	Soundness by Sodium Sulphate (Na2So4)	IS 2386 (Part 5)	0.1 % to 10 %	Permanent
Mechanical - Building, Infrastructure & Construction Materials					
5	Burnt Clay Bricks	Compressive Strength	IS 3495 (Part 01)	2 MPa to 80 MPa	Permanent
6	Burnt Clay Bricks	Dimension (Thickness)	IS1077	1000 mm to 2500 mm	Permanent
7	Burnt Clay Bricks	Dimensions (Length)	IS1077	4000 mm to 5000 mm	Permanent
8	Burnt Clay Bricks	Dimensions (Width)	IS1077	1500 mm to 2300 mm	Permanent
9	Burnt Clay bricks	Water Absorption	IS 3495 (Part 03)	1 % to 30 %	Permanent
10	Cement: OPC33, 43, 53 Grades /PPC PSC /white cement	Fineness by Dry Sieving	IS 4031 (Part 01)	1 % to 10 %	Permanent
11	Cement: OPC33, 43, 53 Grades /PPC/ PSC /white cement	Consistency	IS 4031 (Part 4)	20 % to 40 %	Permanent
12	Cement: OPC33, 43, 53 Grades /PPC/ PSC /white cement	Soundness by Le-Chatelier's method	IS 4031 (Part 3)	0.2 mm to 10 mm	Permanent

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Sr. No.	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Standard specifications/ Equipment/Techniques used	Range of measurement	Facility
13	Cement Concrete Tiles	Dimensions- Thickness	IS 1237	20 mm to 25 mm	Permanent
14	Cement Concrete Tiles	Flatness of Tile Surface	IS 1237	0.1 mm to 5 mm	Permanent
15	Cement Concrete Tiles	Perpendicularity	IS 1237	0.1 mm to 10 mm	Permanent
16	Cement Concrete Tiles	Straightness	IS 1237	0.1 mm to 5 mm	Permanent
17	Cement Concrete Tiles	Water Absorption-WA	IS 1237	1 % to 20 %	Permanent
18	Coarse Aggregate	Bulk Density	IS 2386 (Part 03)	1.0 kg/l to 3 kg/l	Permanent
19	Coarse Aggregate	Crushing Value	IS 2386 (part 04)	1 % to 50 %	Permanent
20	Coarse Aggregate	Elongation Index	IS 2386 (Part 01)	1 % to 50 %	Permanent
21	Coarse Aggregate	Flakiness Index	IS 2386 (Part 01)	1 % to 60 %	Permanent
22	Coarse Aggregate	Impact Value	IS 2386 (part 04)	0.1 % to 40 %	Permanent
23	Coarse Aggregate	Gradation (% Passing)	IS 2386 (Part 01)	up to 100 %	Permanent
24	Coarse Aggregate	Specific Gravity	IS 2386 (Part 03)	1.5 to 3.2	Permanent
25	Coarse Aggregate	Water Absorption	IS 2386 (Part 03)	0.1 % to 5 %	Permanent
26	Coarse Aggregate	10 % Fine value	IS 2386 (Part 04)	5 kN to 50 kN	Permanent
27	Concrete Core	Compressive strength of Concrete Cores	IS 516 (Part 04)	5 N/mm ² to 70 N/mm ²	Permanent
28	Concrete Kerb	Height of Kerb	IS 5758	150 mm to 450 mm	Permanent
29	Concrete Kerb	Thickness of Kerb	IS 5758	100 mm to 165 mm	Permanent
30	Concrete Kerb	Water Absorption	IS 5758	0.5 % to 6 %	Permanent
31	Fine Aggregate (river sand, Manufactured Sand, Crush sand)	Bulk Density (Dry)	IS 2386 (Part 3)	1 kg/l to 3 kg/l	Permanent

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Sr. No.	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Standard specifications/ Equipment/Techniques used	Range of measurement	Facility
32	Fine Aggregate (river sand, Manufactured Sand, Crush sand)	Bulk Density (Rodded)	IS 2386 (Part 03)	1 kg/l to 3 kg/l	Permanent
33	Fine Aggregate (river sand, Manufactured Sand, Crush sand)	Material Finer than 75 micron (% Passing)	IS 2386 (Part 1)	0.1 % to 30 %	Permanent
34	Fine Aggregate (river sand, Manufactured Sand, Crush sand)	Gradation of fine aggregate(% Passing)	IS 2386 (Part 1)	up to 100 %	Permanent
35	Fine Aggregate (river sand, Manufactured Sand, Crush sand)	Specific Gravity	IS 2386 (Part 3)	1.5 to 3	Permanent
36	Fine Aggregate (river sand, Manufactured Sand, Crush sand)	Water Absorption	IS 2386 (Part 03)	0.1 % to 10 %	Permanent
37	Fine Aggregates	Clay Lumps	IS 2386 (Part 2)	0.1 % to 2 %	Permanent
38	Fresh Concrete Mix	Slump Test	IS 1199 (Part 2)	up to 300 mm	Permanent
39	GSB MIX	Gradation of GSB mix (% Passing)	IS 2386 (Part 01)	up to 100 %	Permanent
40	GSB MIX	Aggregate Impact Value	IS 2386 (Part 04)	1 % to 35 %	Permanent
41	GSB MIX	Water Absorption	IS 2386 (Part 3)	0.1 % to 5 %	Permanent
42	GSB MIX	California Bearing Ratio (CBR)	IS 2720 (Part 16)	up to 60%	Permanent
43	GSB MIX	Liquid Limit	IS 2720 (Part 05)	15% to 80%	Permanent

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Sr. No.	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Standard specifications/ Equipment/Techniques used	Range of measurement	Facility
44	GSB MIX	Heavy Compaction - MDD	IS 2720 (Part 8)	1.5 g/cc to 3 g/cc	Permanent
45	GSB MIX	Heavy Compaction - OMC	IS 2720 (Part 08)	5 % to 30 %	Permanent
46	GSB MIX	Free Swell Index	IS 2720 (Part 40)	up to 50 %	Permanent
47	GSB MIX (Embankment construction)	Bulk Density	IS 2386 (Part 03)	1 kg/l to 3 kg/l	Permanent
48	Hardened Concrete	Compressive Strength	IS 516 (Part 1 / sec 1)	5 MPa to 70 MPa	Permanent
49	Hardened Concrete	Density	IS 516 (Part 02) (section 01)	2400 kg/m ³ to 2700 kg/m ³	Permanent
50	Hardened Concrete	Flexural Strength	IS 516 (Part 01) (Section 01)	1 N/mm ² to 5 N/mm ²	Permanent
51	Manhole Cover	Dimension Test	IS 12592	450 mm to 900 mm	Permanent
52	Murum	Gradation (% Passing)	IS 2720 (Part 04)	up to 100 %	Permanent
53	Natural Building Stone	Apparent Specific Gravity	IS 1124	2.5 to 3.5	Permanent
54	Natural Building Stone	True Specific Gravity	IS 1122	2.5 to 3.5	Permanent
55	Natural Building Stone and Rock	Porosity	IS 1124	1 % to 0.3 %	Permanent
56	Natural Building Stone and Rock	Water Absorption	IS 1124	up to 0.1 %	Permanent
57	Paving Block	Dimension: Length	IS 15658	100 mm to 400 mm	Permanent
58	Paving Block	Dimension: Thickness	IS 15658	25 mm to 100 mm	Permanent
59	Paving Block	Dimension: Width	IS 15658	100 mm to 300 mm	Permanent
60	Paving Block	Plane area of paving block	IS 15658	100 mm to 300 mm	Permanent

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Sr. No.	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Standard specifications/ Equipment/Techniques used	Range of measurement	Facility
61	Paving Block	Thickness of wearing layer	IS 15658	1 mm to 6 mm	Permanent
62	Paving Block	Corrected Compressive strength	IS 15658	10 N/mm ² to 55 N/mm ²	Permanent
63	Paving Block	Water Absorption	IS 15658	1 % to 10 %	Permanent
64	PVC Pipe	Dimension	IS 12235 (Part 1)	25 mm to 125 mm	Permanent
Mechanical - Rock Basic					
65	Rock	Dry Density	IS 13030	2 g/cc to 3.5 g/cc	Permanent
66	Rock	Specific Gravity	IS 13030	2 to 3.5	Permanent
67	Rock	Unconfined Compressive Strength of Rock	IS 9143	Up to 1000 N/mm ²	Permanent
68	Rock	Water Content	IS 13030	up to 100 %	Permanent
69	Rock	Wet Density	IS 13030	2.5 g/cc to 4.5 g/cc	Permanent
Mechanical -Soil Basic					
70	Soil / Granular Material	California Bearing Ratio (CBR) (GSB, WMM, CTSB, RAP, Blanket)	IS 2720 (Part 16)	1 to 150 %	Permanent
71	Soil / Granular Material	Free Swell Index	IS 2720 (Part 40)	up to 80 %	Permanent
72	Soil / Granular Material	Grain Size Analysis (below 4.75mm sieve) (% Passing)	IS 2720 (Part 04)	up to 100 %	Permanent
73	Soil / Granular Material	Heavy Compaction – MDD	IS 2720 (Part 8)	1 g/cc to 3 g/cc	Permanent
74	Soil / Granular Material	Heavy Compaction – OMC	IS 2720 (Part 8)	5 % to 30 %	Permanent
75	Soil / Granular Material	Light Compaction - OMC	IS 2720 (Part 7)	5 % to 30 %	Permanent

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Sr. No.	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Standard specifications/ Equipment/Techniques used	Range of measurement	Facility
76	Soil / Granular Material	Light Compaction-MDD	IS 2720 (Part 7)	1 g/cc to 3 g/cc	Permanent
77	Soil / Granular Material	Liquid Limit	IS 2720 (Part 5)	10 % to 80 %	Permanent
78	Soil / Granular Material	Plastic Limit	IS 2720 (Part 5)	up to 60 %	Permanent
79	Soil / Granular Material	Shrinkage Limit	IS 2720 (Part 6)	up to 50 %	Permanent
80	Soil / Granular Material	Water Content by oven drying	IS 2720 (Part 2)	up to 100 %	Permanent
81	Soil / Granular Material	Determination of specific gravity of Fine-grained soil	IS 2720 (Part 3): Sec 1)	1 to 5	Permanent
82	Soil / Granular material	Determination of specific gravity of Fine, medium and coarse-grained soils	IS 2720 (Part 3): Sec 2)	1 to 5	Permanent
Mechanical -Soil Field					
83	Soil field	Soil field density by Sand replacement method	IS 2720 (Part 28)	1.5 g/cc to 2.5 g/cc	Site
84	Soil field	Soil field density by core cutter method	IS 2720 (Part 29)	1.5 g/cc to 2.5 g/cc	Site
Mechanical- Reinforced Concrete Structures					
85	WBM Screening	Aggregate Impact Value	IS 2386 (Part 04)	1% to 30%	Permanent
86	WBM Screening	Elongation Index	IS 2386 (Part 01)	1% to 50 %	Permanent
87	WBM Screening	Gradation of WBM Screening	IS 2386 (Part 01)	up to 100 %	Permanent
88	WBM Screening	Water absorption	IS 2386 (Part 03)	0.1 % to 5 %	Permanent
89	WBM Screening	Flakiness Index	IS 2386 (Part 01)	up to 50 %	Permanent
90	WMM MIX	Aggregate Impact Value	IS 2386 (Part 04)	5 % to 35 %	Permanent

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91	WMM MIX	Elongation Index	IS 2386 (Part 01)	1 % to 50 %	Permanent
92	WMM MIX	Gradation of Aggregate (% Passing)	IS 2386 (Part 01)	up to 100 %	Permanent
93	WMM MIX	Water Absorption	IS 2386 (Part 03)	0.1 % to 5 %	Permanent
94	WMM MIX	Flakiness Index	IS 2386 (Part 01)	up to 50 %	Permanent
95	WMM MIX (Embankment Construction)	Bulk Density	IS 2386 (Part 03)	1 kg/l to 3 kg/l	Permanent
96	WMM MIX (Embankment construction)	Free Swell Index	IS 2720 (Part 40)	up to 50 %	Permanent
Non-Destructive Testing- Reinforced concrete structures					
97	Reinforced concrete structures	Rebound Hammer Test	IS 516: (Part 5/Sec4)	20 N/mm ² to 55 N/mm ²	Site
98	Reinforced concrete structures	Ultrasonic Pulse Velocity	IS 516 (Part 5/Sec 1)	0.50 km/s to 6.00 km/s	Site