



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

AAKAR ABHINAV CONSULTANTS PRIVATE LIMITED, KUKREJA CENTRE, PLOT NO 13,
SECTOR 11, CBD BELAPUR, NAVI MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-8663

Page No

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Validity

26/09/2023 to 25/09/2025

Last Amended on

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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	Concrete Chequered Tiles	Dimension - Length	IS 13801
2	MECHANICAL- BUILDINGS MATERIALS	Concrete Chequered Tiles	Water Absorption	IS 13801
3	MECHANICAL- BUILDINGS MATERIALS	fine aggregate	Specific gravity(fine aggregate)	IS 2386 (part 3)
4	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimension - Length	IS 13757
5	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen	Softening Point	IS 1205
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen emulsion	Residue on 600um Sieve	IS 8887 (Annexure B)
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coating Ability	IS 8887
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Ductility Test	IS 1208
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Elastic Recovery	IS 15462
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Penetration	IS 1203
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Softening Point	IS 1205
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Solubility in Trichloroethylene	IS 1216
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Stability to mixing with Cement	IS 8887 (Annexure G)
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Storage Stability after 24Hrs	IS 8887 (Annexure D)
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity by Say bolt Furoil Viscometer	IS 3117
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Water Miscibility	IS 8887 (Annexure H)
17	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mixtures	Bitumen content	ASTM D 2172-05
18	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mixtures	Bulk Specific Gravity	AASHTO 166



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19	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mixtures	Marshall Stability Test	ASTM D6927
20	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mixtures	Maximum Theoretical Specific Gravity	ASTM D2041/ AASHTO 209
21	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mixtures	Retained tensile strength	AASHTO 283/ ASTM D6931
22	MECHANICAL- BUILDINGS MATERIALS	Clay Bricks	Dimension - Thickness	IS 1077
23	MECHANICAL- BUILDINGS MATERIALS	Clay Bricks	Dimension - Length	IS 1077
24	MECHANICAL- BUILDINGS MATERIALS	Clay Bricks	Dimension - Width	IS 1077
25	MECHANICAL- BUILDINGS MATERIALS	Clay Bricks, Fly Ash Bricks	Water Absorption	IS 3495 (Part-2)
26	MECHANICAL- BUILDINGS MATERIALS	Clay Bricks, Fly Ash Bricks	Efflorescence	IS 3495 (Part:3)
27	MECHANICAL- BUILDINGS MATERIALS	Clay Bricks, Fly Ash Bricks	Compressive Strength	IS 3495 (Part-1)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	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	Soundness test with magnesium sulphate	IS 2386 PART-5
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping Test	IS 6241
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10 % Fine Value	IS 2386 (Part 4)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk density(loose and rodded)	IS 2386(part 3)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness test with sodium sulphate or magnesium sulphate	IS 2386 PART-5
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386(part 3)
36	MECHANICAL- BUILDINGS MATERIALS	coarse Aggregate, GSB WMM	Aggregate Impact Value	IS 2386(part 4)



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37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate, GSB, WMM	Sieve Analysis	IS 2386(part 1)
38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate, GSB,WMM	Flakiness Index	IS 2386(part-1)
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate, GSB,WMM	Water Absorption	IS 2386(part 3)
40	MECHANICAL- BUILDINGS MATERIALS	Concrete Beam	Flexural Strength	IS 516
41	MECHANICAL- BUILDINGS MATERIALS	Concrete Chequered Tiles	Dimension - Thickness	IS 13801
42	MECHANICAL- BUILDINGS MATERIALS	Concrete Chequered Tiles	Dimension - Width	IS 13801
43	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516 (Part 4)
44	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516 (Part-1/Sec-1)
45	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Block	Compressive Strength	IS 15658
46	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Block	Dimension - Length	IS 15658
47	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Block	Dimension - Thickness	IS 15658
48	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Block	Dimension - Width	IS 15658
49	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Block	Water Absorption	IS 15658
50	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 microns	IS 2386 (Part 1)
51	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sand Equivalent Value	IS 2720 PART-37
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density(Loose and Rodded)	IS 2386(part 3)
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386(part 1)
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386(part 3)
55	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimension - Thickness	IS 13757



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56	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimension - Width	IS 13757
57	MECHANICAL- BUILDINGS MATERIALS	Micro Surfacing (Cold Mix Bitumen)	Methylene Blue Test	ISSA TB 145
58	MECHANICAL- BUILDINGS MATERIALS	Micro Surfacing (Cold Mix Bitumen)	Mixing Time	IRC SP 81: 2008/ ISSA TB 113
59	MECHANICAL- BUILDINGS MATERIALS	Micro Surfacing (Cold Mix Bitumen)	Wet cohesion within 30 min	IRC SP 81: 2008/ ISSA TB 139
60	MECHANICAL- BUILDINGS MATERIALS	Micro Surfacing (Cold Mix Bitumen)	Wet cohesion within 60 min	IRC SP 81: 2008/ ISSA TB 139
61	MECHANICAL- BUILDINGS MATERIALS	Micro Surfacing (Cold Mix Bitumen)	Wet Stripping % Passing min	IRC SP 81: 2008
62	MECHANICAL- BUILDINGS MATERIALS	Micro Surfacing (Cold Mix Bitumen)	Wet track abrasion loss (1 Hour Soak)	IRC SP 81: 2008/ ISSA TB 100
63	MECHANICAL- BUILDINGS MATERIALS	Micro Surfacing (Cold Mix Bitumen)	Wet track abrasion loss (6 days Soak)	IRC SP 81: 2008/ ISSA TB 100
64	MECHANICAL- BUILDINGS MATERIALS	Micro Surfacing (Cold Mix Bitumen)	Consistency	ISSA TB 106
65	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen	Absolute Viscosity @ 60°C	IS 1206
66	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen	Ductility Test	IS 1208
67	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen	Elastic Recovery	IS 15462
68	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen	Penetration	IS 1203
69	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen	Solubility in Trichloroethylene	IS 1216
70	MECHANICAL- SOIL AND ROCK	Rock	Point load index	IS 8764
71	MECHANICAL- SOIL AND ROCK	Rock	porosity	IS 13030
72	MECHANICAL- SOIL AND ROCK	Rock	specific gravity(rock)	IS 13030
73	MECHANICAL- SOIL AND ROCK	Rock	unconfined compression test	IS 9143
74	MECHANICAL- SOIL AND ROCK	Rock	water content	IS 13030



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75	MECHANICAL- SOIL AND ROCK	Rock	wet/dry density	IS 13030
76	MECHANICAL- SOIL AND ROCK	soil, GSB	CBR	IS 2720(part 16)
77	MECHANICAL- SOIL AND ROCK	soil, GSB	Particle size analysis by hydrometer	IS 2720(part 4)
78	MECHANICAL- SOIL AND ROCK	Soil, GSB	water content	IS 2720(part 2)
79	MECHANICAL- SOIL AND ROCK	soil, GSB, WMM	Heavy Compaction -maximum dry density	IS 2720 (Part 8)
80	MECHANICAL- SOIL AND ROCK	soil, GSB, WMM	Heavy compaction-optimum moisture content	IS 2720(part 8)
81	MECHANICAL- SOIL AND ROCK	Soil, GSB, WMM	liquid limit	IS 2720(part 5)
82	MECHANICAL- SOIL AND ROCK	Soil, GSB, WMM	plastic limit	IS 2720(part5)
83	MECHANICAL- SOIL AND ROCK	soil, Moorum	Free swell index	IS 2720(part 40)
84	MECHANICAL- SOIL AND ROCK	soil, Moorum	Grain size analysis	IS 2720(part 4)
85	MECHANICAL- SOIL AND ROCK	soil, Moorum	Light compaction-Maximum Dry density	IS 2720(Part 7)
86	MECHANICAL- SOIL AND ROCK	soil, Moorum	Light compaction-optimum moisture content	IS 2720(part 7)
87	MECHANICAL- SOIL AND ROCK	soil, Moorum	shrinkage limit	IS 2720 (part6)
88	MECHANICAL- SOIL AND ROCK	Soil, Moorum	Specific Gravity(soil)	IS 2720 (part 3 /sec1)
89	MECHANICAL- SOIL AND ROCK	Stones	Specific Gravity	IS 1122
90	MECHANICAL- SOIL AND ROCK	stones	Water Absorption	IS 1124