



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ASHOKA HIGHWAY RESEARCH CENTRE PRIVATE LIMITED, SURVEY NO. 113/2, FIRST FLOOR,
ASHOKA BUSINESS ENCLAVE - II, WADALA ROAD, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

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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	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bitumen Emulsion	Coagulation at Low Temperature	IS 8887 (Annexure C)
2	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bitumen Emulsion	Coating Ability and Water Resistance	IS 8887 (Annexure F)
3	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bitumen Emulsion	Miscibility with Water	IS 8887 (Annexure H)
4	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bitumen Emulsion	Residue by Evaporation	IS 8887 (Annexure J)
5	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bitumen Emulsion	Residue by Sieving through 600 micron IS Sieve	IS 8887 (Annexure B)
6	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bitumen Emulsion	Stability to Mixing with Cement	IS 8887 (Annexure G)
7	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bitumen Emulsion	Storage Stability after 24 h	IS 8887 (Annexure D)



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8	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bitumen Emulsion	Viscosity at 25 °C	IS 3117- by Saybolt Furol Viscometer
9	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bitumen Emulsion	Viscosity at 50 °C	IS 3117- by Saybolt Furol Viscometer
10	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bituminous Mix	Bitumen Content	IRC SP 135- by Soxhlet Extraction Apparatus
11	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bituminous Mix	Bitumen Content	IS 19008- by Centrifuge
12	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bituminous Mix	Bulk Density	ASTM D2726
13	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bituminous Mix	Marshall Flow	IS 17127
14	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bituminous Mix	Marshall Stability	IS 17127



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15	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bituminous Mix	Tensile Strength Ratio	IS 17116
16	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bituminous Mix	Theoretical Maximum Specific Gravity	ASTM D2041
17	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Abrasion Value	IS 2386 (Part 4)- by Los Angeles
18	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Bulk Density (Loose)	IS 2386 (Part 3)
19	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Bulk Density (Rodded)	IS 2386 (Part 3)
20	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Combined Flakiness and Elongation Index	IS 383
21	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)



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22	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
23	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
24	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
25	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Materials Finer than 75 micron	IS 2386 (Part 1)
26	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Size : 4.75 mm to 80 mm)	IS 2386 (Part 1)
27	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Soundness	IS 2386 (Part 5)- by Magnesium Sulphate
28	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Soundness	IS 2386 (Part 5)- by Sodium Sulphate



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29	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
30	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Stripping Value	IS 6241
31	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
32	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Bulk Density (Loose)	IS 2386 (Part 3)
33	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Bulk Density (Rodded)	IS 2386 (Part 3)
34	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Sieve Analysis (Sieve Size : 0.075 mm to 4.75 mm)	IS 2386 (Part 1)
35	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Soundness	IS 2386 (Part 5)- by Magnesium Sulphate



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36	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Soundness	IS 2386 (Part 5)- by Sodium Sulphate
37	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
38	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
39	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hardened Concrete	Compressive Strength (Core)	IS 516 (Part 4)
40	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hardened Concrete	Compressive Strength (Cube & Cylinder)	IS 516 (Part 1, Section 1)
41	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hardened Concrete	Density	IS 516 (Part 2, Section 1)
42	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hardened Concrete	Flexural Strength (Beam)	IS 516 (Part 1, Section 1)



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43	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC & PPC)	Compressive Strength	IS 4031 (Part 6)
44	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC & PPC)	Consistency	IS 4031 (Part 4)
45	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC & PPC)	Final Setting Time	IS 4031 (Part 5)
46	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC & PPC)	Fineness	IS 4031 (Part 1)- by Dry Sieving
47	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC & PPC)	Initial Setting Time	IS 4031 (Part 5)
48	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC & PPC)	Soundness	IS 4031 (Part 3)- by Le-Chatelier Method
49	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC)	Fineness	IS 4031 (Part 2)- by Blaine Air Permeability Method



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50	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Polymer Modified Bitumen	Complex Modulus (G*) divided by Sin Delta (G*/Sin d) as min. 2.2 kPa, 25 mm Plate, 1 mm Gap at 10 rad/s at a Temperature, °C (on Rolling Thin Film Oven Residue)	IS 15462 (Annexure B)
51	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Polymer Modified Bitumen	Complex Modulus (G*) divided by Sin Delta (G*/Sin d) as min. 1.0 kPa, 25 mm plate, 1 mm Gap at 10 rad/s at a Temperature, °C (on Original Binder)	IS 15462 (Annexure B)
52	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Polymer Modified Bitumen	Complex Modulus (G*) multiplied by Sin Delta (G*/Sin d) as max. 6000 kPa, 8 mm Plate, 2 mm Gap, at 10 rad/s, at a Temperature, °C (on Pressure Aging Vessel Residue)	IS 15462 (Annexure B)
53	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Polymer Modified Bitumen	Elastic Recovery of Half Thread in Ductilometer at 15 °C (on Original Binder)	IS 1208 (Part 2)
54	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Polymer Modified Bitumen	Jnr3.2 by MSCR Test (on Rolling Thin Film Oven Residue)	IS 15462 (Annexure D)
55	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Polymer Modified Bitumen	Jnrdiff by MSCR Test (on Rolling Thin Film Oven Residue)	IS 15462 (Annexure D)



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56	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Polymer Modified Bitumen	Loss in Mass (on Rolling Thin Film Oven Residue)	IS 15799
57	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Polymer Modified Bitumen	Phase Angle (d) (on Original Binder)	IS 15462 (Annexure B)
58	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Polymer Modified Bitumen	Separation, Difference in Softening Point	IS 15462 (Annexure C)- by Ring and Ball Apparatus
59	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Polymer Modified Bitumen	Softening Point (on Original Binder)	IS 1205- by Ring and Ball Apparatus
60	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Polymer Modified Bitumen	Viscosity at 150 °C	IS 17335
61	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Rubber Modified Bitumen	Change in Softening Point (on Thin Film Oven Test)	IS 1205
62	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Rubber Modified Bitumen	Complex Modulus (G*) divided by Sin Delta (G*/Sin d) as min. 2.2 kPa, 25 mm plate, 1mm gap at 10 rad/s, at a Temperature, °C (on Thin Film Oven Residue)	IS 15462 (Annexure B)



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63	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Rubber Modified Bitumen	Complex Modulus (G*) divided by Sin delta (G*/Sin d) as min. 1.0 kPa, 25 mm Plate, 1 mm gap, at 10 rad/s, at a Temperature, °C (on Original Binder)	IS 15462 (Annexure B)
64	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Rubber Modified Bitumen	Elastic Recovery of Half Thread in Ductilometer at 15 °C	IS 1208 (Part 2)
65	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Rubber Modified Bitumen	Elastic Recovery of Half Thread in Ductilometer at 25 °C (on Thin Film Oven Residue)	IS 1208 (Part 2)
66	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Rubber Modified Bitumen	Loss in Mass (on Thin Film Oven Residue)	IS 9382
67	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Rubber Modified Bitumen	Penetration at 25 °C, 100 g, 5 s	IS 1203
68	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Rubber Modified Bitumen	Reduction in Penetration at 25 °C (on Thin Film Oven Residue)	IS 1203
69	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Rubber Modified Bitumen	Separation, Difference in Softening Point	IS 17079 (Annex B)- by Ring and Ball Apparatus



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70	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Rubber Modified Bitumen	Softening Point	IS 1205- by Ring and Ball Apparatus
71	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Rubber Modified Bitumen	Viscosity at 150 °C	IS 17335
72	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Straight-run Bitumen	Absolute Viscosity at 60 °C	IS 1206 (Part 2)
73	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Straight-run Bitumen	Ductility (on Thin Film Oven Residue)	IS 1208 (Part 1)
74	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Straight-run Bitumen	Fire Point	IS 1209
75	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Straight-run Bitumen	Flash Point	IS 1209
76	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Straight-run Bitumen	Kinematic Viscosity at 135 °C	IS 1206 (Part 3)



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77	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Straight-run Bitumen	Penetration at 25 °C, 100 g, 5 sec	IS 1203
78	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Straight-run Bitumen	Softening Point	IS 1205- by Ring and Ball Apparatus
79	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Straight-run Bitumen	Solubility in Trichloroethylene	IS 1216
80	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Straight-run Bitumen	Specific Gravity	IS 1202
81	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Straight-run Bitumen	Viscosity Ratio (on Rolling Thin Film Oven Residue)	IS 1206 (Part 2)
82	MECHANICAL- SOIL-BASIC	Soil	California Bearing Ratio (Soaked)	IS 2720 (Part 16)
83	MECHANICAL- SOIL-BASIC	Soil	California Bearing Ratio (Unsoaked)	IS 2720 (Part 16)
84	MECHANICAL- SOIL-BASIC	Soil	Direct Shear Test, Undrained (Angle of Internal Friction, Phi)	IS 2720 (Part 13)
85	MECHANICAL- SOIL-BASIC	Soil	Direct Shear Test, Undrained (Cohesion)	IS 2720 (Part 13)
86	MECHANICAL- SOIL-BASIC	Soil	Free Swell Index	IS 2720 (Part 40)



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87	MECHANICAL- SOIL- BASIC	Soil	Liquid Limit	IS 2720 (Part 5)- by Cone Penetration Method
88	MECHANICAL- SOIL- BASIC	Soil	Maximum Dry Density (Heavy Compaction)	IS 2720 (Part 8)
89	MECHANICAL- SOIL- BASIC	Soil	Maximum Dry Density (Light Compaction)	IS 2720 (Part 7)
90	MECHANICAL- SOIL- BASIC	Soil	Optimum Moisture Content (Heavy Compaction)	IS 2720 (Part 8)
91	MECHANICAL- SOIL- BASIC	Soil	Optimum Moisture Content (Light Compaction)	IS 2720 (Part 7)
92	MECHANICAL- SOIL- BASIC	Soil	Plastic Limit	IS 2720 (Part 5)
93	MECHANICAL- SOIL- BASIC	Soil	Water Content	IS 2720 (Part 2)- by Oven Drying Method
94	MECHANICAL- SOIL- BASIC	Soil (Gravel)	Grain Size Analysis (Sieve Size : 4.75 mm to 80 mm)	IS (2720 Part 4)- by Dry Sieving
95	MECHANICAL- SOIL- BASIC	Soil (Sand)	Grain Size Analysis (Sieve Size : 0.075 mm to 4.75 mm)	IS 2720 (Part 4)- by Wet Sieving
96	MECHANICAL- SOIL- BASIC	Soil (Silt & Clay)	Grain Size Analysis (Sieve Size : Below 0.075 mm)	IS 2720 (Part 4)- by Wet Sieving