National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BITUMINOUS BINDERS QUALITY LABORATORY OF BITCOL MODIFIED BITUMEN SYSTEMS PRIVATE LIMITED, PLOT NO: H38, UPSIDC, INDUSTRIAL AREA, KOSI KOTWAN, EXTENSION-1, KOSI KALAN-2, MATHURA, UTTAR PRADESH, INDIA

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Permanent Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coagulation of Emulsion at low temperature	IS 8887 Annex C
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coating Ability & Water Resistance	IS 8887 Annex F
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Distillation for Emulsified Asphalt	ASTM D6997
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Distillation in Percent Volume of Distillate recovered at 360°C	ASTM D402
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Distillation in Percent Volume of Distillate recovered at 360°C	IS 1213
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Ductility at 25°C	IS 1208
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen emulsion	Miscibility with Water	IS 8887 Annex H
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen emulsion	Particle Charge	IS 8887 Annex E
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen emulsion	Penetration at25°C,100g,5s,0.1mm	IS 1203
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue by Evaporation	IS 8887 Annex J
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 micron IS Sieve	IS8887 Annex B
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Solubility in trichloroethylene	IS 1216
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	stability to Mixing with Cement	IS 8887 Annex G
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen emulsion	Storage Stability after 24 h	IS 8887 Annex D
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity at 25°C/ 50°C by Sybolt furol Viscometer	IS 3117 Annex A
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Water Content Percent by Mass	IS 1211
17	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Miscibility with Water	IS 8887 Annex H
18	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Mixing Time	IS 17016 Annex B

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19	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Particle Charge	IS 8887 Annex E
20	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Residue on 600 micron IS Sieve	IS 8887 Annex B
21	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Storage Stability after 24 h	IS 8887 Annexure D
22	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Tests on residue, Ductility at 27°C	IS 1208
23	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Tests on residue, Elastic Recovery	IS 15462 Annex A
24	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Tests on residue, Softening Point (R&B)	IS 1205
25	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Tests on Residue, stability to Mixing with Cement	IS 8887 Annex G
26	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Tests on Residue-Residue by Evaporation	IS8887 Annex J
27	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Tests, on Residue, Penetration at 25°C,100g, 5s, 0.1mm	IS 1203
28	MECHANICAL- BUILDINGS MATERIALS	Cationic Modified Bitumen Emulsion, PME	Viscosity at 25°C by Saybolt furol Viscometer	IS 3117 Annex A
29	MECHANICAL- BUILDINGS MATERIALS	Crumb Rubber Modified Bitumen (CRMB) Type B	DSR, Complex Modulus G* divided by Sin delta (G*/Sin d) at test Temperature with 1mm Gap & 25 mm Plate	IS 15462 Annex B
30	MECHANICAL- BUILDINGS MATERIALS	Crumb Rubber Modified Bitumen (CRMB) Type B	Flash point (Cleveland Open Cup)	IS 1448 (Part 69)
31	MECHANICAL- BUILDINGS MATERIALS	crumb Rubber Modified Bitumen (CRMB), Type B	Separation Difference in Softening point (R&B)	Annexure- B, IS17079
32	MECHANICAL- BUILDINGS MATERIALS	Crumb Rubber Modified Bitumen (CRMB),Type B	Tests on thin film Oven residue, Change in Softening point	IS 1205
33	MECHANICAL- BUILDINGS MATERIALS	Crumb Rubber Modified Bitumen (CRMB),Type B	Tests on thin film Oven residue,DSR, Complex Modulus G* divided by Sin delta (G*/Sin d) at test Temperature with 1mm Gap & 25 mm Plate	IS 15462 Annex B
34	MECHANICAL- BUILDINGS MATERIALS	Crumb Rubber Modified Bitumen (CRMB),Type B	Viscosity at 150°C	IS 1206 (Part 2)
35	MECHANICAL- BUILDINGS MATERIALS	Crumb Rubber Modified Bitumen (CRMB),Type B	Loss in Mass	IS 9382

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36	MECHANICAL- BUILDINGS MATERIALS	Crumb Rubber Modified Bitumen (CRMB),Type B	Penetration at 25°C,100g,5s,0.1mm	IS 1203
37	MECHANICAL- BUILDINGS MATERIALS	Crumb Rubber Modified Bitumen (CRMB),Type B	Tests on thin film Oven residue, Reduction in Penetration of residue at 25°C	IS 1203
38	MECHANICAL- BUILDINGS MATERIALS	Crumb Rubber Modified Bitumen (CRMB)Type B	Softening Point (R&B)	IS 1205
39	MECHANICAL- BUILDINGS MATERIALS	Crumb Rubber Modified Bitumen(CRMB),Type B	Tests on thin film Oven residue, Elastic Recovery at 25 °C	Annex A. IS 17079
40	MECHANICAL- BUILDINGS MATERIALS	Crumb Rubber Modified Bitumen(CRMB),Type B	Elastic Recovery at 15 °C	Annex A, IS17079
41	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen Emulsion for Microsurfacing	Coagulation of emulsion at low temperature	IS 8887 Annex C
42	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen Emulsion for Microsurfacing	Ductility at 25°C	IS 1208
43	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen Emulsion for Microsurfacing	Elastic Recovery at 15 °C	IS 15462 Annex A
44	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen Emulsion for Microsurfacing	Particle Charge	IS 8887 Annex E
45	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen Emulsion for Microsurfacing	Penetration at 25°C	IS 1203
46	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen Emulsion for Microsurfacing	Residue by Evaporation	IS 8887 Annex J
47	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen Emulsion for Microsurfacing	Residue on 600 micron IS Sieve	IS 8887 Annex B
48	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen Emulsion for Microsurfacing	Softening Point (R&B)	IS 1205
49	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen Emulsion for Microsurfacing	Solubility in trichloroethylene	IS 1216
50	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen Emulsion for Microsurfacing	Storage Stability after 24 h	IS 8887 Annex D
51	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen Emulsion for Microsurfacing	Viscosity at 25°C/ 50°C by Sybolt furol Viscometer	IS 3117 Annex A
52	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Absolute Viscosity at 60°C	IS 1206 (Part 2)
53	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Absolute Viscosity at 60°C, Poise	ASTM D2171

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54	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Ductility at 25°C	IS 1208
55	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Flash point (Cleveland Open Cup)	IS 1209
56	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Flash point(Cleveland Open Cup)°C, Min	ASTM D92
57	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Kinematic Viscosity at 135°C	ASTM D 2170
58	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Kinematic Viscosity at 135°C	IS 1206 (Part 3)
59	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Kinematic Viscosity at 135°C,cSt, Min	ASTM D2170
60	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Penetration at 25°C,100g,5s,0.1mm	ASTM D5
61	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Penetration at 25°C,100g,5s,0.1mm	IS 1203
62	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	penetration at at 25°C, 100g,5s,0.1mm	ASTM D 5
63	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Rotational Viscosity at 135°C	ASTM D4402
64	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Softening Point (R&B)	IS 1205
65	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Softening Point(R&B),°C, Min	ASTM D36
66	MECHANICAL- BUILDINGS MATERIALS	Paving bitumen	Solubility in trichloroethylene	IS 1216
67	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Specific Gravity	IS 1202
68	MECHANICAL- BUILDINGS MATERIALS	Paving bitumen	Viscosity ratio at 60 °C	IS 1206
69	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen /Polymer Modified Bitumen	Rolling Thin Film Oven Test	ASTM D2872
70	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen/Polymer Modified Bitumen	Loss on Heating	ASTM D6
71	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Complex Modulus G* at Temperature 1mm gap & 25 mm plate	ASTM D7175

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72	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen, PMB	MSCR at test Temperature Jnr at 3.2 kPa	ASTM D7405
73	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen, PMB	MSCR at test temperature Jnr diff,	ASTM D7405
74	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Bending Beam Rheometer, Creep stiffness at test temperature, M- Value	ASTM D6648
75	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Bending Beam Rheometer- Creep Stiffness at test temperature measured stiffness	ASTM D6648
76	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Complex Modulus G* at Temperature 1mm gap & 25 mm plate	Annex B IS 15462 (Annexure B)
77	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	DSR , Phase Angle d, at test Temperature	IS 15462 Annex B
78	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	DSR, Complex Modulus G* divided by Sin delta (G*/Sin d) at test Temperature with 1mm Gap & 25 mm Plate	ASTM D7175
79	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	DSR, Complex Modulus G* divided by Sin delta (G*/Sin d) at test Temperature with 1mm Gap & 25 mm Plate	IS 15462 (Annex B)
80	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	DSR, Complex Modulus G* Multipied by Sin d (G* Sin d) at test Temperature with 2mm Gap & 8 mm Plate, PAv Residue	ASTM D7175
81	MECHANICAL- BUILDINGS MATERIALS	polymer Modified Bitumen	DSR, Complex Modulus G* Multiplied by Sin delta (G*Sin d) at test Temperature with 2mm Gap & 8 mm Plate	Annex C, IS 15462
82	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Elastic Recovery at test temperature	ASTM D6084
83	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Elastic Recovery at 15 °C	Annex A IS 15462
84	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Flash point (Cleveland Open Cup)	IS 1448 (Part:69)
85	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Increase in Softening point	IS 1205

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86	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Loss in Mass	IS 9382
87	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	MSCR at test Temperature Jnr at 3.2 kPa	IS 15462 Annex D
88	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	MSCR at test temperature Jnr diff	AASTHO M332
89	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	PAV Aged Sample ,DSR, Complex Modulus G* Multipied by Sin delta (G*Sin d) at test Temperature with 2mm Gap & 8 mm Plate	IS 15462 , Annex C
90	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Reduction in Penetration of residue at 25°C	IS 1203
91	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Separation Difference in Softening point (R&B)	IS 15462 Annex C
92	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Separation difference: Abs. difference between G* of top and bottom specimens	ASTM D7173
93	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Softening Point (R&B)	IS 1205
94	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen	Viscosity at 150°C	ASTM 4402
95	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen , RTFO Residue	DSR, Complex Modulus G* divided by Sin delta (G*/Sin d) at test Temperature with 1mm Gap & 25 mm Plate- RTFO Residue	ASTM D7175
96	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen PMB	Elastic recovery at 25°C test Temperature TFOT residue	IS 15462 Annex A
97	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen PMB	Viscosity at 150°C	IS 1206 Part-1, Amend 2
98	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen, PMB	Bending Beam Rheometer, Creep Stiffness at test Temperature,Measured stiffness	ASTM D6448
99	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen, PMB	Complex Modulus G*/Sin d at Temperature 1mm gap & 25 mm plate TFOT Residue	IS 15462 Annex B
100	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen, PMB	MSCR at test Temperature Jnr at 3.2 kPa	AASTHO M332

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101	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen, PMB	MSCR at test temperature Jnr diff,	IS 15462 Annex D