

Laboratory Sri Mukha Road Products & Civil Labs Pvt. Ltd., 533/4/8, 536/D/8, Perecharla (V), Medikonduru (M), Guntur (D), Andhra Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7861

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Validity 26.09.2018 to 25.09.2020

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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MECHANICAL TESTING

I.	BUILDING MATERIALS			
1.	Emulsion	Residue by Evaporation	IS 8887 Annex-J	45 % to 70%
		Saybolt Viscosity	IS 3117	10 s to 150 s
		Residue on 600 microns IS Sieve	IS 8887 Annex-B	0.01 % to 2 %
		Storage stability after 24 hours	IS 8887 Annex-D	0 to 2 %
		Miscibility with water	IS 8887 Annex-H	No Coagulation
		Method for Determination of Particle Charge	IS 8887 Annex-E	Positive
2.	Bitumen (VG-10/20/30/40)	Specific gravity	IS 1202	0.97 to 1.02
		Softening point	IS 1205	35° to 100°
		Penetration, 0.1mm	IS 1203	10units to 100units
		Ductility	IS 1208	10 cm to 100 cm
		Viscosity	ASTM D4402	100 cp to 1000 cp @135°
3.	Bituminous Mix	Bitumen Content	ASTM D6307	3 % to 5.5 %
4.	(CRMB) & Polymer Modified Bitumen (PMB)	Elastic Recovery	IS 15462 Annex-A	0 to 70 %
		Loss in mass	ASTM D 1754	0 to 1 %
		Increase in softening point		0 to 7°
		Separation Difference in Softening Point	IS 15462 Annex-B	0 to 5°
5.	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1)	4.75 mm to 80 mm (0 to 100 %)
		Specific Gravity	IS 2386 (Part 3)	2 to 4
		Flakiness & Elongation Index	IS 2386 (Part 1)	1 % to 50 %
		Water Absorption	IS 2386 (Part 3)	0.1 % to 10 %
		Impact Value	IS 2386 (Part 4)	1 % to 50 %
		Crushing Value	IS 2386 (Part 4)	1 % to 50 %
		Stripping Value	IS 6241	20 % to 100 %

Amit Kumar
Convenor

Anuja Anand
Program Manager

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6.	Fine Aggregate	10% Fines Value	IS 2386 (Part 4)	50 kN to 200 kN
		Sieve Analysis	IS 2386 (Part 1)	150 mic to 10mm (0 to 100 %)
		Specific Gravity	IS 2386 (Part 3)	2 to 4
7.	Concrete	Water Absorption	IS 2386 (Part 3)	0.1% to 10%
		Compressive Strength	IS 516	10N/mm ² to 80N/mm ²
II. MECHANICAL PROPERTIES OF METALS				
1.	Reinforcing Steel	Mass per Mtr	IS 1786	0.01kg/m to 20 kg/m
		Yield Stress	IS 1608	100N mm ² to 700N/mm ²
		Ultimate Tensile test	IS 1608	100 N/mm ² to 700 N/mm ²
III. SOIL & ROCK				
1.	Soil	Free Swell Index	IS 2720 (Part 40)	1 % to 90 %
		Liquid limits	IS 2720 (Part 5)	20 % to 80 %
		Plastic limits	IS 2720 (Part 5)	10 % to 40 %
		Water Content	IS 2720 (Part 2)	0.1 % to 35 %
		Standard Compaction	IS 2720 (Part 7)	MDD: 1.0 g/cc to 3.00 g/cc OMC: 1 % to 25 %
		Modified Compaction	IS 2720 (Part 8)	MDD: 1.0 g/cc to 3.00 g/cc OMC: 1 % to 20 %
		CBR	IS 2720 (Part 16)	1 % to 60 %

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