

Laboratory Shivaay Technocrat Service, H. No. 48, Shri Ji Nagar, Durgapura,
Tonk Road, Jaipur, Rajasthan

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7206

Page 1 of 2

Validity 26.04.2018 to 25.04.2020

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
-----	----------------------------	-------------------------	---	--

MECHANICAL TESTING

I.	BUILDING MATERIALS			
1.	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1)	475 mm to 80 mm (Upto 100 %)
		Specific Gravity	IS 2386 (Part 3)	2 to 4
		Water Absorption	IS 2386 (Part 3)	0.1 % to 5 %
		Bulk Density	IS 2386 (Part 3)	0.82 kg/L to 2.2 kg/L
		Flakiness Index	IS 2386 (Part 1)	2 % to 50 %
		Elongation Index	IS 2386 (Part 1)	2 % to 50 %
		Aggregate Impact Value	IS 2386 (Part 4)	5 % to 50 %
		Aggregate Crushing Value	IS 2386 (Part 4)	2 % to 60 %
		10% Fine Value	IS 2386 (Part 4)	10 Ton to 40Ton
		Soundness	IS 2386 (Part 5)	0.1 % to 20 %
		Finer Than 75 µm	IS 2386 (Part 1)	0.1 % to 10 %
		Stripping Value	IS 6241	150 µm to 10 mm (Upto 20 %)
2.	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1)	Upto 100 %
		Specific Gravity	IS 2386 (Part 3)	2 to 4
		Water Absorption	IS 2386 (Part 3)	0.1 % to 5 %
		Bulk Density	IS 2386 (Part 3)	0.8 kg/L to 2.2 kg/L
		Bulking	IS 2386 (Part 3)	1 % to 20 %
		Soundness	IS 2386 (Part 5)	0.1 % to 20 %
		Finer Than 75 µm	IS 2386 (Part 2)	0.2 % to 10 %
		Silt Content	IS 2386 (Part 3)	0.2 % to 10 %
3.	Bricks	Water Absorption	IS 3495	1 % to 30 %
		Compressive Strength	IS 3495	1 N/mm ² to 40 N/mm ²
		Efflorescence	IS 3495	Qualitative

Naveen Jangra
Convenor

N. Venkateswaran
Program Director

Laboratory Shivaay Technocrat Service, H. No. 48, Shri Ji Nagar, Durgapura,
Tonk Road, Jaipur, Rajasthan

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7206

Page 2 of 2

Validity 26.04.2018 to 25.04.2020

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
		Dimensions Length Weight Height	IS 1077	4500 mm to 4700 mm 2100 mm to 2300 mm 1300 mm to 1500 mm
4.	Concrete Cube	Compressive Strength	IS 516	5 N/mm ² to 80 N/mm ²
5.	Bituminous MixE4	Binder Content	ASTM D-2172	2 % to 12 %
6.	Paver Block	Compressive Strength Water Absorption	IS 15658 IS 15658	5.0 N/mm ² to 80 N/mm ² 1 % to 30 %
II.	SOIL & ROCK			
1.	Soil	Liquid Limit Plastic Limit Grain Size Analysis	IS 2720 (Part 5) IS 2720 (Part 5) IS 2720 (Part 4)	10 % to 80 % Upto 50 % 75 µm to 20 mm (Upto 100 %)
		Free Swell Index	IS 2720 (Part 40)	1 % to 100 %
		Light Compaction Test	IS 2720 (Part 7)	MDD- 1.5 g/cc to 2.5 g/cc OMC- 4% to 20 %
		Heavy Compaction	IS 2720 (Part 8)	M.D.D.- 1.6 g/cc to 2.8g/cc O.M.C.- 4% to 20%
		Moisture Content	IS 2720 (Part 2)	1 %to 50 %