Laboratory SGS India Private Limited, Material Testing Laboratory, No:- 67-10, 7th

C Cross, 7th A Cross, 7th Cross, BTM 2nd Stage, NS Palya,

Bannerghatta Road, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7398 Page 1 of 2

Validity 09.06.2018 to 08.06.2020 Last Amended on --

SI.	Product / Material of Test	Specific Test Performed	•	Range of Testing / Limits of Detection
			performed	

MECHANICAL TESTING

I.	BUILDING MATERIA	ALS		
1.	Aggregate Coarse	Sieve Analysis	IS 2386 (Part 1)	4.75 mm to 40 mm
		Specific Gravity	IS 2386 (Part 3)	2.00 to 4.00
		Water Absorption	IS 2386 (Part 3)	0.1 % to 5.0 %
		Aggregate Impact Value	IS 2386 (Part 4)	1 % to 50 %
		Aggregate Crushing Value	IS 2386 (Part 4)	1 % to 50 %
		10 % Fines Value	IS 2386 (Part 4)	1 kN to 200 kN
		Flakiness Index	IS 2386 (Part 1)	1 % to 60 %
<u> </u>		Elongation Index	IS 2386 (Part 1)	1 % to 60 %
2.	Aggregate Fine	Sieve Analysis	IS 2386 (Part 1)	0.075 mm to 10 mm
<u> </u>		Specific Gravity	IS 2386 (Part 3)	2.00 to 4.00
<u> </u>		Water Absorption	IS 2386 (Part 3)	0.1 % to 7.0 %
<u> </u>		Particle Finer than 75 µm	IS 2386 (Part 1)	0.1 % to 20 %
3.	Concrete Cubes	Compressive Strength	IS 516	5 N/mm ² to 65 N/mm ²
4.	Cement (OPC)	Consistency	IS 4031 (Part 4)	20% to 45%
		Initial Setting Time	IS 4031 (Part 5)	30 minutes to 300 minutes
		Final Setting Time	IS 4031 (Part 5)	150 minutes to
			10 1001 (1 a.t 0)	700 minutes
		Fineness (Blaine's Method)	IS 4031 (Part 2)	100 m ² /kg to 400m ² /kg
		Compressive Strength	IS 4031 (Part 6)	10 N/mm ² to 65 N/mm ²
		Soundness (Le-Chatelier Method)	IS 4031 (Part 3)	0.1 mm to 10 mm
5.	Concrete Solid/ Hollow Blocks	Water Absorption	IS 2185 (Part 1)	1% to 15%

Prince Garg Convenor Laboratory SGS India Private Limited, Material Testing Laboratory, No:- 67-10, 7th

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Compressive Strength	IS 2185 (Part 1)	1 N/mm ² to 15 N/mm ²
		Block Density	IS 2185 (Part 1)	1000 kg/m ³ to 2200 kg/m ³
II.	MECHANICAL PRO	PERTIES OF METALS	J	
1.	Reinforcing Steel	Weight/Meter	IS 1786	0.1 kg/m to 15 kg/m
		Yield Stress	IS 1608	100 N/mm ² to 700 N/mm ²
		Ultimate Tensile Strength	IS 1608	100 N/mm ² to 800 N/mm ²
		Elongation	IS 1608	1% to 50 %
		Bend	IS 1599	Qualitative (Mandrel Diameter Size: 24, 32, 40, 50, 60,80, 100, 112, 125,140, 160, 224 mm)
		Rebend	IS 1786	Qualitative (Mandrel Diameter Size: 24, 32, 40, 50, 60,80, 100, 112, 125,140, 160, 224 mm)

Prince Garg Convenor