

Laboratory **M.V. Associates, 3/5 Cross Road, Netaji Nagar, Lalpuram Road, Guntur, Andhra Pradesh**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7755 (in lieu of T-4217)**

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Validity **20.10.2018 to 19.10.2020**

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.	<b>Coarse Aggregate</b>	Sieve analysis	IS 2386 (Part 1)	4.75 mm to 40 mm	
		Flakiness Index	IS 2386 (Part 1)	1 % to 70 %	
		Elongation Index	IS 2386 (Part 1)	1 % to 70 %	
		Specific Gravity	IS 2386 (Part 3)	1.5 to 4.0	
		Crushing Value	IS 2386 (Part 4)	1 % to 50 %	
		Impact value	IS 2386 (Part 4)	1 % to 50 %	
		Bulk Density Loose Rodded	IS 2386 (Part 3)	1.0 kg/l to 2.0 kg/l	
2.	<b>Fine Aggregate</b>	Sieve analysis	IS 2386 (Part 1)	0.15 mm to 4.75 mm	
		Specific gravity	IS 2386 (Part 3)	2 to 4	
		Bulk Density Loose Rodded	IS 2386 (Part 3)	1.0 kg/l to 2.0 kg/l	
3.	<b>Concrete</b>	Compressive strength	IS 516	5 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>	
4.	<b>Burnt Clay Bricks</b>	Compressive strength	IS 3495 (Part 1)	1 N/mm <sup>2</sup> to 35 N/mm <sup>2</sup>	
		Water absorption	IS 3495(Part 2)	1 % to 30 %	
		Efflorescence test	IS 3495(Part 3)	Qualitative	
5.	<b>Cement</b>	Consistency	IS 4031 (Part 4)	20 % to 35 %	
		<b>Setting Time</b>	Initial setting time	IS 4031 (Part 5)	10 min. to 300 min.
			Final setting time	IS 4031 (Part 5)	30 min. to 600 min.
			Soundness by Le Chatelier's	IS 4031 (Part 3)	0.1 mm to 10 mm
		Compressive Strength	IS 4031 (Part 6)	10 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>	
		Fineness by Dry Sieve Method	IS 4031 (Part 1)	1 % to 10 %	
6.	<b>Pre-Casted Paver Blocks</b>	Specific Gravity	IS 4031 (Part 11)	1 to 3.5	
		Compressive strength	IS 15658 (Annex D)	1 N/mm <sup>2</sup> to 60 N/mm <sup>2</sup>	
		Water absorption	IS 15658 (Annex C)	0.1% to 30%	