

Laboratory	Universal Testing Lab., Unit No. 17, Laxmi Industrial Estate C.H.S., Laxmi Nagar, Off Link Road, Goregaon (West), Mumbai, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	24.04.2015
Certificate Number	T-3376	Valid Until	23.04.2017
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	BUILDING MATERIALS			
1.	Coarse Aggregate	Sieve Analysis	IS 2386 (Part1): 1963 (RA 2011)	4.75 mm to 40 mm
		Specific Gravity	IS 2386 (Part 3): 1963 (RA 2011)	2 to 4
		Water Absorption	IS 2386 (Part 3): 1963 (RA 2011)	0.1 % to 10 %
		Bulk Density	IS 2386 (Part 3): 1963 (RA 2011)	1 kg/l to 2 kg/l
		Impact Value	IS 2386 (Part 4): 1963 (RA 2011)	2 % to 50 %
		Crushing Value	IS 2386 (Part 4): 1963 (RA 2011)	2 % to 50 %
		Elongation Index	IS 2386 (Part 1): 1963 (RA 2011)	1 % to 50 %
		Flakiness Index	IS 2386 (Part 1): 1963 (RA 2011)	1 % to 50 %
2.	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1): 1963 (RA 2011)	75 µm to 4.75 mm
		Specific Gravity	IS 2386 (Part 3): 1963 (RA 2011)	2 to 4
		Water Absorption	IS 2386 (Part 3): 1963 (RA 2011)	1 % to 10 %
		Bulk Density	IS 2386 (Part 3): 1963 (RA 2011)	1 kg/l to 2 kg/l
		Finer than 75 micron	IS 2386 (Part 1): 1963 (RA 2011)	1 % to 30 %
3.	Concrete	Compressive Strength	IS 516: 1959 (RA 2008)	5 N/mm ² to 85 N/mm ²
4.	Cement	Normal Consistency	IS 4031 (Part 4): 1988 (RA 2013)	25 % to 40 %
		Initial Setting Time	IS 4031 (Part 5): 1988 (RA 2013)	5 minute to 600 minute
		Final Setting Time	IS 4031 (Part 5): 1988 (RA 2013)	60 minute to 600 minute

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	Cement	Soundness by Le-Chatelier	IS 4031 (Part 3): 1988 (RA 2013)	0.5 mm to 10 mm
		Fineness by sieving	IS 4031 (Part 1): 1988 (RA 2013)	1 % to 20 %
		Compressive Strength	IS 4031 (Part 6): 1988 (RA 2013)	5 N/mm ² to 85 N/mm ²
5.	Paver Block	Compressive Strength	IS 15658: 2006 (RA 2011)	10 N/mm ² to 70 N/mm ²
		Water Absorption	IS 15658: 2006 (RA 2011)	1 % to 10 %
6.	Bricks	Compressive Strength	IS 3495 (Part 1): 1992 (RA 2011)	2 N/mm ² to 35 N/mm ²
		Water Absorption	IS 3495 (Part 2): 1992 (RA 2011)	5 % to 35 %
		Efflorescence	IS 3495 (Part 3): 1992 (RA 2011)	Qualitative
II. MECHANICAL PROPERTIES OF MATERIALS				
1.	Steel Reinforcement	Weight per Meter	IS 1786: 2008 (RA 2013)	0.1 kg/m to 10 kg/m
		% Elongation	IS 1608: 2005 (RA 2010)	1 % to 40 %
		Yield Stress	IS 1608: 2005 (RA 2010)	150 MPa to 800 MPa
		Ultimate Tensile Strength	IS 1608: 2005 (RA 2010)	150 MPa to 900 MPa
		Bend Test	IS 1599: 2012	Qualitative (Mandrel Diameter: 16,24,32,30,20,36,40,50, 48,60,80,64,100,75,128, 125,150, 96,160, 192, 120, 200 & 240 mm)

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	Steel Reinforcement	Rebend Test	IS 1786: 2008 (RA 2013)	Qualitative (Mandrel Diameter : 40, 50, 32, 56, 48, 84, 70, 60, 32, 84, 96, 112, 128, 140, 120, 150, 175, 200, 224, 192, 180, 256, 240, 320 & 160 mm)

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