

Laboratory **Constroqcheck Laboratories, Plot No. A-45, M.I.D.C., Baramati, Pune, Maharashtra**

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

Certificate Number **TC-7797**

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Validity **30.08.2018 to 29.08.2020**

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**

<b>I. BUILDING MATERIALS</b>				
<b>1.</b>	<b>Coarse Aggregate</b>	Sieve Analysis (80-mm, 63-mm, 50-mm, 40-mm, 31.5-mm, 25-mm, 20-mm, 16-mm, 12.5-mm, 10-mm, 6.3-mm & 4.75-mm)	IS 2386 (Part 1) - 1963 RA 2016	0.1 %to 100 %
		Specific Gravity	IS 2386 (Part 3) - 1963 RA 2016	1.5 to 4.0
		Water absorption	IS 2386 (Part 3) - 1963 RA 2016	0.1% to 10 %
		Impact Value	IS 2386 (Part 4) - 1963 RA 2016	1 %to 50 %
<b>2.</b>	<b>Fine Aggregate</b>	Sieve Analysis (10-mm, 4.75-mm, 2.36-mm, 1.18-mm, 600-micron, 300 -micron, 150 -micron, 75 –micron)	IS 2386 (Part 1) - 1963 RA 2016	0.1% to 100 %
		Material Fine than 75µ	IS 2386 (Part 1) - 1963 RA 2016	0.1%to 5%
		Specific Gravity	IS 2386 (Part 3) - 1963 RA 2016	1.5 to 4.0
		Water Absorption	IS 2386 (Part 3) - 1963 RA 2016	0.1% to 10%
<b>3.</b>	<b>Brick</b>	Compressive Strength	IS 3495 (Part 1) - 1992 RA 2016	3.5 N/mm <sup>2</sup> to 15 N/mm <sup>2</sup>
<b>4.</b>	<b>Paver Block</b>	Compressive Strength	IS 15658: 2006 RA 2017, Annex D	5 N/mm <sup>2</sup> to 85 N/mm <sup>2</sup>
<b>5.</b>	<b>Hardened Concrete</b>	Compressive Strength (Cube & Core)	IS 516-1959 RA 2013	10 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>

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	<b>Fresh Concrete</b>	Slump	IS 1199:1959 RA 2013	1 mm to 300 mm
<b>II.</b>	<b>SOIL &amp; ROCK</b>			
<b>1.</b>	<b>Soil</b>	Liquid Limit (Casagrande)	IS 2720 (Part-5) - 1985 RA 2015	25 % to 120 %
		Plastic Limit	IS 2720 (Part-5) - 1985 RA 2015	15% to 40 %
		Light Compaction	IS 2720 (Part-7) - 1980 RA 2016	MDD: 1.0 g/cc to 2.1 g/cc OMC: 5 %to 40.0 %
		Heavy Compaction	IS 2720 (Part-8) - 1983 RA 2015	MDD: 1.4 g/cc to 2.6 g/cc OMC: 2% to 30.0 %
		California Bearing Ratio	IS 2720 (Part-16) - 1987 RA 2016	1% to 60 %
		Dry Density	IS 2720 (Part-28) 1974 RA 2015 (Sand Replacement Method)	1.0 g/cc to 3.0 g/cc

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<b><u>NON-DESTRUCTIVE TESTING</u></b>				
<b>AT-SITE</b>				
<b>I.</b>	<b>BUILDING MATERIALS</b>			
<b>1.</b>	<b>Reinforced Concrete Structures</b>	Ultrasonic Pulse Velocity Test	IS 13311 (Part 1): 1992 RA 2013	0.5 km/s to 5 km/s