

**Laboratory** Concrete Futures Laboratory, Ambuja Cements Ltd., Gala No. B-15, B-16 & B-17, Empire Industrial Area, Kondivitta Lane, Andheri (E), Mumbai, Maharashtra

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

**Certificate Number** TC-8185

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**Validity** 06.12.2018 to 05.12.2020

Last Amended on 27.01.2019

*"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"*

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>Fine Aggregates</b>	Sieve Analysis	IS 2386 (Part 1): 1963 (RA 2016)	10 mm to 150 microns
		Materials finer than 75 microns	IS 2386 (Part 1): 1963 (RA 2016)	0 to 25 %
		Specific gravity Water absorption	IS 2386 (Part 3): 1963 (RA 2016)	1.5 to 3.5 0.1 % to 20 %
		1. Loose Bulk Density 2. Rodded Bulk Density	IS 2386 (Part 3): 1963 (RA 2016)	1.2 kg/l to 2.5 kg/l 1.2 kg/l to 3.0 kg/l
		Moisture Content	IS 2386 (Part 3): 1963 (RA 2016)	0 to 15 %
2.	<b>Coarse Aggregates</b>	Sieve Analysis	IS 2386 (Part 1): 1963 (RA 2016)	80 mm to 2.36 mm
		Materials finer than 75 microns	IS 2386 (Part 1): 1963 (RA 2016)	0 to 10 %
		Specific gravity water absorption	IS 2386 (Part 3): 1963 (RA 2016)	1.5 to 3.5 0.1% to 8%
		1. Loose Bulk Density 2. Rodded Bulk Density	IS 2386 (Part 3): 1963 (RA 2016)	1.2 kg/l to 2.5 kg/l 1.2 kg/l to 3.0 kg/l
		Flakiness index	IS 2386 (Part 1): 1963 (RA 2016)	0 to 50 %
		Elongation index	IS 2386 (Part 1): 1963 (RA 2016)	0 to 50 %
3.	<b>Concrete Cubes</b>	Compressive Strength of Concrete Cubes	IS 516:1959 (RA 2013)	5 N/mm <sup>2</sup> to 120 N/mm <sup>2</sup>
4.	<b>Fly Ash</b>	Material Finer Than 45 micron	IS 1727:1967 (RA 2008) (6.2)	0 to 60 %
5.	<b>Hardened Concrete</b>	Rapid Chloride Penetration Test	ASTM C 1202	188 Coulomb at 2262 Coulomb

**Sangeeta Negi**  
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6.	Concrete Beam	Flexural Strength of Concrete Beam	IS 516:1959 (RA 2013)	0.5 N/mm <sup>2</sup> to 15 N/mm <sup>2</sup>