Laboratory	National Council for Cement and Building Materials, Smeet Bungalows, Off. Judges Bungalow Road, Bodakdev, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	TC-6431	Page 1 of 2	
Validity	17.10.2017 to 16.10.2019	Last Amended on	

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection					
	MECHANICAL TESTING								
I.	BUILDING MATERIA	ALS							
1.	Cement OPC & PPC	Standard Consistency	IS 4031 (Part - 4) : 1988 (RA.2016)	20% to 45 %					
		Initial Setting Time	IS 4031 (Part - 5) : 1988 (RA.2014)	10 minute to 300 minute					
		Final Setting Time	IS 4031 (Part - 5) : 1988 (RA.2014)	100 minute to 600 minute					
		Compressive Strength	IS 4031 (Part - 6) : 1988 (RA.2014)	5 MPa to 80 MPa					
		Fineness by Blaine Air Permeability Method	IS 4031 (Part - 2) : 1999 (RA.2013)	150 m²/kg to 600 m²/kg					
		Soundness (LeChatelier Expansion)	IS 4031 (Part - 3) : 1988 (RA.2014)	0.5 mm to 15 mm					
		Soundness (Autoclave Expansion)	IS 4031 (Part - 3) : 1988 (RA.2014)	0.01% to 2 %					
		Density	IS 4031 (Part - 11) : 1988 (RA.2014)	1.5 g/cc to 4.0 g/cc					
2.	Aggregate (Coarse)	Sieve Analysis	IS 2386 (Pt-1):1963 RA: 2016	4.75 mm to 80 mm (up to 100%)					
		Impact Value	IS 2386 (Part -4):1963 RA: 2016	5% to 60 %					
		Crushing Value	IS 2386 (Part -4): 1963 RA: 2016	5% to 60 %					
		Abrasion Value (Los Angles)	IS 2386 (Part -4):1963 RA: 2016	5 % to 60%					
		Flakiness Index	IS 2386 (Part -1):1963 RA: 2016	5 % to 50 %					
		Elongation Index	IS 2386 (Part -1):1963 RA: 2016	5 % to 50 %					

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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
		Water absorption	IS 2386 (Part -3):1963 RA: 2016	0.1% to 5.0 %
		Specific Gravity	IS 2386 (Part -3):1963 RA: 2016	02 to 04
		Bulk density	IS 2386 (Part -3):1963 RA: 2016	1.50 kg/l to 4.50 kg/l
3	Aggregate (Fine Aggregate)	Sieve Analysis	IS 2386 (Part -1):1963 RA: 2016	75 μm to 4.75 mm
		Water absorption	IS 2386 (Part -3):1963 RA: 2016	0.1 %to 5.0 %
		Material finer than 75 µ sieve	IS 2386 (Part -1): 1963 RA: 2016	0.5 % to 20 %
		Bulk density	IS 2386 (Part -3):1963 RA: 2016	1.50 kg/l to 4.50 kg/l
		Specific Gravity (Fine Aggregate)	IS 2386 (Part -3):1963 RA: 2016	02 to04
4	Building Bricks (Burnt Clay &	Compressive Strength	IS 3495 (Part - 1) : 1992 (RA. 2011)	1 N/mm ² to 50 N/mm ²
	Lime Pulverized Fuel ash)	Water Absorption	IS 3495 (Part - 2) : 1992 (RA. 2011)	1% to 30 %
		Dimension	IS 1077 : 1992 (RA.2011)	Length:3000 mm to 6000 mm
				Width:1500 mm to 3000 mm
				Height:1000 mm to 3000 mm
		Efflorescence	IS 3495 (Part - 2) : 1992 (RA. 2011)	Qualitative
5	Concrete	Compressive Strength of Hardened Concrete	ÎS 516 : 1959 (RA. 2013)	100 kg/cm ² to 750 kg/cm ²