

Laboratory Testing Laboratory, Meghraj Geotech Engineering, 40, Digvijay Plot,
Pavan Chakki, Jamnagar, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5776

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Validity 18.01.2018 to 17.01.2020

Last Amended on 30.01.2018

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.	SOIL & ROCK			
1.	Soil	Specific Gravity	IS 2720 (Part 4) 1985 (RA 2015)	1.5 to 3
		Liquid Limit	IS 2720 (Part 5) 1985 (RA 2015)	10 % to 80 %
		Plastic Limit	IS 2720 (Part 5) 1985 (RA 2015)	5 % to 60 %
		Free Swell Index	IS 2720 (Part 40) 1997 (RA 2016)	1 % to 100 %
		Light Compaction MDD OMC	IS 2720 (Part 7) 1980 (RA 2016)	1.40 g/cc to 2.90 g/cc 10 % to 30 %
		Heavy Compaction MDD OMC	IS 2720 (Part 8) 1980 (RA 2015)	1.4 g/cc to 2.80 g/cc 5 % to 30 %
II.	BUILDING MATERIALS			
1.	Aggregates (Coarse)	Sieve Analysis	IS 2386 (Part 1) 1963 (RA 2016)	4.74 mm to 80 mm
		Specific Gravity	IS 2386 (Part 3) 1963 (RA 2016)	2.5 to 3.5
		Impact Value	IS 2386 (Part 4) 1963 (RA 2016)	5 % to 50 %
		Elongation Index	IS 2386 (Part 1) 1963 (RA 2016)	5 % to 50 %
		Flakiness Index	IS 2386 (Part 1) 1963 (RA 2016)	5 % to 50 %
		Water Absorption	IS 2386 (Part 3) 1963 (RA 2016)	0.1 % to 5 %

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		Crushing Value	IS 2386 (Part 4) 1963 (RA 2016)	5 % to 50 %
2.	Aggregates (Fine)	Sieve Analysis	IS 2386 (Part 1) 1963 (RA 2016)	0.075 mm to 10 mm
		Specific Gravity	IS 2386 (Part 3) 1963 (RA 2016)	2.5 to 3.0
		Water Absorption	IS 2386 (Part 3) 1963 (RA 2016)	0.1 % to 10 %
3.	Cement (OPC)	Initial Setting Time	IS 4031 (Part 5) 1988 RA 2014)	30 min to 300 min
		Final Setting Time	IS 4031 (Part 5) 1988 (RA 2014)	100 min to 600 min
		Compressive Strength	IS 4031 (Part 6) 1988 (RA 2014)	10 N/mm ² to 70 N/mm ²
		Standard Consistency	IS 4031 (Part 4) 1988 (RA 2014)	25 % to 40 %
		Soundness by Le-Chatelier	IS 4031 (Part 3) 1987 RA 2014)	0.5 mm to 10mm
4.	Bricks (Clay & Fly Ash Bricks)	Compressive Strength	IS 3495 (Part 1) 1992 (RA 2016)	0.5 N/mm ² to 25 N/mm ²
		Water Absorption	IS 3495 (Part 2) 1992 (RA 2016)	1 % to 25 %
		Dimension Length Width Height	IS 1077 - 1997 (RA 2016)	4520 mm to 4680 mm 2160 mm to 2240 mm 1360 mm to 1440 mm
		Efflorescence	IS 3495 (Part 3) 1992 (RA 2016)	Qualitative
5.	Hardened Concrete	Compressive Strength	IS 516 - 1959 (RA 2013)	10 N/mm ² to 80 N/mm ²
6.	Fresh Concrete	Slump Test	IS: 1199 2005 (RA 2013)	1 mm to 300 mm

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7.	Paver Block	Compressive Strength	IS 15658 - 2006, Annex D (RA 2017)	5 N/mm ² to 80N/mm ²
		Water Absorption	IS 15658 - 2006, Annex C (RA 2017)	0.5 % to 20 %