

Laboratory OM Geotech & Testing Services, Plot No. 197, Old Shivnagar, Talaja Road, Bhavnagar, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6935

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Validity 20.02.2018 to 19.02.2020

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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CHEMICAL TESTING

I.	WATER			
1	Water (For Construction Purpose)	pH	IS 3025 (Part – 11) : 1983 (RA.2017)	1.0 to 14.0
		Chloride	IS 3025 (Part 32):1988, RA. 2014; Argentometric Method (Titration)	1 mg/l to 25000 mg/l
		Sulphate	IS 3025 (Part 24): 1986, RA.2014;Gravimetric Method	10 mg/l to 25000 mg/l

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Convenor

N. Venkateswaran
Program Director

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<u>MECHANICAL TESTING</u>				
I.	MECHANICAL PROPERTIES OF METALS			
1.	Steel HSDS Bars	Ultimate Tensile Strength	IS 1608 : 2005 (RA.2017)	100 kN to 1000 kN
		Yield Strength	IS 1608 : 2005 (RA.2017)	100 kN to 1000 kN
		Elongation	IS 1608 : 2005 (RA.2017)	5% to 40%
		Mass per Meter	IS 1786 : 2008 (RA.2013)	0.08 kg/m to 11 kg/m
II.	BUILDING MATERIAL			
1.	Bricks	Compressive Strength	IS 3495 (Part - 1) : 1992 (RA. 2016)	2 N/mm ² to 30 N/mm ²
		Water Absorption	IS 3495 (Part - 2) : 1992 (RA. 2016)	1 % to 30 %
		Dimension	IS 1077 : 1992 (RA.2016)	Length=2000 mm to 5000 mm
				Width= 1600 mm to 2500 mm
				Height= 1200 mm to 2300 mm
		Effloresces	IS 3495 (Part - 3) : 1992 (RA. 2016)	Qualitative
2.	Concrete	Compressive Strength of Hardened Concrete	IS 516 : 1959 (RA. 2013)	5 N/mm ² to 80 N/mm ²
		Workability of Fresh Concrete (Slump)	IS 1199 : 1959 (RA.2013)	10 mm to 250 mm
3.	Bitumen	Penetration	IS 1203 : 1978 (RA.2014)	15 to 100 (1/10mm)
		Softening Point	IS 1205 : 1978 (RA.2014)	10 °C to 100 °C
		Ductility	IS 1208 : 1978 (RA.2014)	25 cm to 100 cm

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4.	Cement (OPC, PPC)	Standard Consistency	IS 4031 (Part - 4) : 1988 (RA.2014)	15% to 45 %
		Initial Setting Time	IS 4031 (Part - 5) : 1988 (RA.2014)	30 Minutes to 300 Minutes
		Final Setting Time	IS 4031 (Part - 5) : 1988 (RA.2014)	100 Minutes to 700 Minutes
		Compressive Strength	IS 4031 (Part - 6) : 1988 (RA.2014)	5 N/mm ² to 70 N/mm ²
		Fineness by Blain's Air Permeability	IS 4031 (Part - 2) : 1999 (RA.2013)	150 m ² /Kg to 450 m ² /Kg
		Soundness by Lechatlier	IS 4031 (Part - 3) : 1988 (RA.2014)	0.2 mm to 10 mm
		Density	IS 4031 (Part - 11) : 1988 (RA.2014)	2.5 g/cc to 3.5 g/cc
5.	Aggregates (Fine)	Sieve Analysis	IS 2386 (Part - 1) : 1963 (RA. 2016)	10 mm to 150 micron (0 to 100 %)
		Specific Gravity	IS 2386 (Part - 3) : 1963 (RA. 2016)	1.5 to 3.5
		Water Absorption	IS 2386 (Part - 3) : 1963 (RA. 2016)	0.5 %to 10 %
6.	Aggregates (Coarse)	Sieve Analysis	IS 2386 (Part - 1) : 1963 (RA. 2016)	80 mm to 4.75 mm (0 to 100 %)
		Specific Gravity	IS 2386 (Part - 3) : 1963 (RA. 2016)	1.5 to 3.5
		Water Absorption	IS 2386 (Part - 3) : 1963 (RA. 2016)	0.1% to 10 %
		Flakiness Index	IS 2386 (Part - 1) : 1963(RA.2016) Cl.4.0	1 % to 70 %
		Elongation Index	IS 2386 (Part - 1) : 1963(RA.2016) Cl.5.0	1 % to 70 %
		Impact Value	IS 2386 (Part - 4) : 1963 (RA.2016) Cl.4.0	5% to 60 %
		10 Percent Fines	IS 2386 (Part - 4) : 1963(RA.2016) Cl.3.0	10 kN to 700 kN

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		Crushing Value	IS 2386 (Part - 4) : 1963(RA.2016) Cl.2.0	1 to 60 %
III.	SOIL & ROCK			
1.	Soil	Grain Size Analysis	IS 2720 (Part - 4) : 1985 (RA.2015)	4.75mm to 0.075 mm (0 to 100 %)
		Liquid Limit	IS 2720 (Part - 5) : 1985 (RA. 2015)	15% to 400 %
		Plastic Limit	IS 2720 (Part - 5) : 1985 (RA. 2015)	10 %to 200 %
		Water content – Dry density relation using Light Compaction	IS 2720 (Part - 7) : 1980 (RA.2011)	MDD: 1 g/cc to 3 g/cc
				OMC: 5% to 30%
		Water content – Dry density relation using Heavy Compaction`	IS 2720 (Part - 8) : 1983 (RA.2015)	MDD: 1.5 g/cc to 3 g/cc
				OMC: 5 %to 25%
		California Bearing Ratio	IS 2720 (Part - 16) : 1987 (RA.2011)	1% to 80 %
		Moisture Content	IS 2720 (Part - 2) : 1973 (RA.2011)	5% to 50 %
		Specific Gravity	IS 2720 (Part - 3) (Sec-1 & 2) : 1973 (RA.2011)	1 to 4

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