JK Lakshmi Cement Ltd., Surat Grinding Unit, Kadodara Bardoli Highway, Village-Dastan, Tal. Palsana, Surat, Gujarat Laboratory

Accreditation Standard ISO/IEC 17025: 2005

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Validity 23.10.2018 to 22.10.2020 Last Amended on --

SI		Specific Test Performed	Test Method Specification	Range of Testing /
	of Test		against which tests are	Limits of Detection
			performed	

CHEMICAL TESTING

I.	BUILDING MATE	RIAL		
1.	Cement	Loss on Ignition (LOI)	IS 4032:1985 (RA 2014)	0.1 % to 10.0 %
	(OPC & PPC)	Silicon Dioxide (SiO2)	IS 4032:1985 (RA 2014)	15.0 % to 40.0 %
		Calcium Oxide (CaO)	IS 4032:1985 (RA 2014)	30.0 % to 70.0 %
		Magnesium Oxide (MgO)	IS 4032:1985 (RA 2014)	1.0 % to 5.0 %
		Iron Oxide (Fe2O3)	IS 4032:1985 (RA 2014)	2.0 % to 10.0 %
		Aluminium Oxide (Al2O3)	IS 4032:1985 (RA 2014)	3.0 % to 15.0 %
		Insoluble Residue (IR)	IS 4032:1985 (RA 2014)	0.1 % to 45.0 %
		Sulphur Anhydride (SO3)	IS 4032:1985 (RA 2014)	1.0 % to 10.0 %

Gaurav Saini Convenor

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
			performed	

MECHANICAL TESTING

I.	BUILDING MATERIALS			
1.	Cement	Fineness by air permeability (Blaine)	IS 4031 (Part 2): 1999 (RA 2017)	150 m ² /kg to 500 m ² /kg
		Soundness by Le Chatelier Test	IS 4031 (Part 3): 1988 (RA 2013)	0.5 mm to 10 mm
		Soundness by Autoclave Test	IS 4031 (Part 3): 1988 (RA 2013)	0.01 % to 0.8 %
		Normal Consistency	IS 4031 (Part 4): 1988 (RA 2013)	22 % to 45 %
		Setting Time:		
		Initial Setting Time	IS 4031 (Part 5): 1988 (RA 2013)	30 min. to 300 min.
		Final Setting Time	IS 4031 (Part 5): 1988 (RA 2013)	30 min. to 600 min.
		Compressive Strength:		
		3 Days	IS 4031 (Part 6): 1988	10 MPa to 80 MPa
		7 Days	(RA 2013)	10 MPa to 80 MPa
		28 Days		10 MPa to 80 MPa
		Drying Shrinkage	IS 4031 (Part 10): 1988 (RA 2013)	0.01 % to 0.15 %

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