

Laboratory J.K. Cement Works, Quality Control Laboratories, P.O. Kailash
 Nagar-1, J.K. Cement Works, Nimbahera, Dist. Chittorgarh, Rajasthan
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number TC-6535 (in lieu of T-2732, T-2733) **Page 1 of 2**
Validity 29.11.2017 to 28.11.2019 **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.	BUILDING MATERIALS			
1.	Cement: OPC PPC	LOI	IS 4032 (Clause 4.2)	0.1% to 8.0 %
		Insoluble Residue	IS 4032 (Clause 4.10)	1.0 % to 35.0 %
		Sulphuric Anhydride	IS 4032 (Clause 4.9)	0.5 % to 6.0 %
		SiO ₂	IS 4032 (Clause 4.3)	10.0 % to 35.0 %
		Al ₂ O ₃	IS 4032 (Clause 4.6.2)	2.0% to 10.0 %
		Fe ₂ O ₃	IS 4032 (Clause 4.5.2)	0.1% to 6.0 %
		CaO	IS 4032 (Clause 4.7.2)	30.0 % to 68.0 %
		MgO	IS 4032 (Clause 4.8.2 & 7.2)	0.1% to 6.0 %
	Chloride	IS 4032 (Clause 4.13)	0.005 % to 1.0 %	

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<u>MECHANICAL TESTING</u>				
I.	BUILDING MATERIALS			
1.	Cement OPC PPC	Standard Consistency	IS 4031 (Part 4)	20 % to 35 %
		Fineness	IS 4031 (Part 2)	200 m ² /kg to 450 m ² /kg
		Soundness by Lechatelier	IS 4031 (Part 3)	Upto 10 mm
		Soundness by Autoclave	IS 4031 (Part 3)	0.01% to 2.00 %
		Initial Setting Time	IS 4031 (Part 5)	30 Minute to 300 Minute
		Final Setting Time	IS 4031 (Part 5)	30 Minute to 600 Minute
		Compressive Strength (72 Hours ± 1 Hours)	IS 4031 (Part 6)	12 MPa to 40 MPa
		Compressive Strength (168 Hours ± 2 Hours)	IS 4031 (Part 6)	20 MPa to 50 MPa
		Compressive Strength (672 Hours ± 4 Hours)	IS 4031 (Part 6)	30 MPa to 70 MPa