





DASTAN, PALSANA, DIST. SURAT (GUJ.)

LICENCE NO. CM/L-7200051996

TEST CERTIFICATE

Customer Name & Address: Marketing Department of JK Lakshmi Cement Ltd., Surat

Sample Identification : Ordinary Portland Cement – 53 Grade (As per IS 269 : 2015)

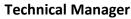
Sample Date: 08.01.2019 to 14.01.2019 (Week No: 02)

Certificate (ULR) No.: TC801318000000133P

Date of Issue: 23.01.2019

Sr. No	Particulars	Test Method	Requirement of IS:269	Results Obtained
Chemical Requirements				
1	Ratio of Percentage of Lime to percentage of silica, alumina and iron oxide $\text{CaO} = 0.7\text{SO}_3$	IS : 4032 - 1985	Not greater than 1.02 And not less than 0.80	0.886
	2.8 SiO ₂ + 1.2 Al ₂ O ₃ + 0.65 Fe ₂ O ₃			
2	Ratio of percentage of alumina to that of iron oxide	IS : 4032 - 1985	Not less than 0.66	1.57
3	Insoluble residue(% by mass)	IS : 4032 - 1985	Not more than 5.0	1.82
4	Magnesia(% by mass)	IS : 4032 - 1985	Not more than 6.0	2.43
5	Total sulphur calculated as Sulphuric Anhydride (SO₃) (% by mass)	IS : 4032 - 1985	Not more than 3.5	2.98
6	Total loss on ignition (% by mass)	IS : 4032 - 1985	Not more than 4.0	1.56
7	Chloride(% by mass)*	IS : 4032 - 1985	Not more than 0.1	0.018
	Mech	anical Requirement	s	
1	Fineness (m²/kg)	IS : 4031 (Part-2) - 1999	Not less than 225	334
2	Normal Consistency (%)	IS : 4031 (Part-4) - 1988	-	28.75
3	Soundness: a) Le-chateliere expansion (mm) b) Autoclave test expansion (%)	IS : 4031 (Part-3) - 1988	Not more than 10 Not more than 0.8	1.0 0.104
4	Setting Time: a) Initial setting time (Minutes) b) Final setting time (Minutes)	IS : 4031 (Part-5) - 1988	Not less than 30 Not more than 600	130 170
5	Compressive Strength: a) 72 ± 1 Hours (3 Days) (MPa) b) 168 ± 2 Hours (7 Days) (MPa) c) 672 ± 4 Hours (28 Days) (MPa)	IS : 4031 (Part-6) - 1988	Not less than 27 Not less than 37 Not less than 53	37.8 47.0 Under Testing

Remarks: Results reported above are the average test results of all sample testing during the relevant week.







Authorized Signatory



^{*:} Not covered under NABL Accreditation at present.