



FORMAT NO. F - 10(12)
SAURASHTRA CEMENT LTD.

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CIN: L26941GJ1956PLC000840

TEST CERTIFICATE
ORDINARY PORTLAND CEMENT 53 - GRADE

DATE OF DESPATCH : 9-Sep-16 Week No 37

TEST AND COMPLIANCE :

PARTICULARS	UNIT	TEST RESULTS	REQUIREMENT OF IS 12269 : 2013
<u>A. CHEMICAL REQUIREMENTS:</u>			
1. Lime Saturation Factor		0.93	0.80 - 1.02
2. Ratio of Percentage of Alumina to that of Iron Oxide		1.22	0.66 Min
3. Insoluble Residue (percent by mass)	%	1.18	4.00 Max
4. Magnesia (percent by mass)	%	0.91	6.00 Max
5. Sulphuric Anhydride (SO ₃) (percent by mass)	%	2.53	3.50 Max
6. Loss On Ignition	%	2.20	4.00 Max
7. Chloride (percent by mass)	%	0.032	0.10 Max
8. C3A		6.90	
<u>B. PHYSICAL REQUIREMENTS :</u>			
1. Fineness (Blaine)	M ² / Kg	306	225 Min
2. Soundness			
a. Le.Chatelier Expansion	mm	0.0	10.00 Max
b. Autoclave Expansion	%	0.11	00.8 Max
3. Setting Time			
a. Initial	Minutes	130	30 Min
b. Final	Minutes	190	600 Max
4. Compressive Strength			
a. 72±1 hours (3 days)	MPa	38.50	27 Min
b. 168±1 hours (7 days)	MPa	48.50	37 Min
c. 672±4 hours (28 days)	MPa	UT	53 Min
5. S.C.	%	27.5	

The above cement complies with the requirement of IS 12269 : 2013 in respect of test carried out.

Chemist
Date : 9/19/2016

AUTHORISED SIGNATORY