





## **Zuari Cement Ltd**

SOLAPUR GRINDING UNIT SOLAPUR, MAHARASHTRA

## **ENGINEERED FOR DURABILITY**

	TEST CERTIFICATE	Week No	28
	ORDINARY PORTLAND CEMENT 53G	Year	2022
SAMPLE	RESULT OBTAINED	REQUIREMENT	-
TEST TYPE	FROM TEST	IS : 269-2015	
PHYSICAL REQUIREMENTS			
. Fineness -Blaine(M²/Kg)	286	Not less than 225 M <sup>2</sup> /Kg	
.Soundness:			
.Autoclave Expansion (%)	0.054	Not more than 0.8 %	
Le Chatelier Expansion (in mm)	1.00	Not more than 10 mm	
Setting Time (in minutes)			
A.Initial	160	Not less than 30 minutes	
3.Final	230	Not more than 600 minutes	
Compressive Strength (MPa)			
A.72 ± 1 hr.(3 days)	35.0	Not Less than 27 MPa	
3.168 ± 2 hr.(7 days)	44.7	Not Less than 37 MPa	
C.672 ± 4 hr.(28 days)	UT	Not Less than 53 MPa	
CHEMICAL REQUIREMENTS			
.Loss on Ignition (% by mass)	1.49	4 % Maximum	
Insoluble Residue (% by mass)	4.18	5 % Maximum	
.Magnesium Oxide (MgO) (% by mass)	1.32	6.0 % Maximum	
Total Sulphur content calculated as (SO3) by mass)	2.67	3.5 % Maximum	
.Chlorides (% by mass)	0.015	0.10 % Maximum	
Lime Saturation Factor			
<u>Cao - 0.7 So3</u> (2.8 SiO2+ 1.2 AL2O3+0.65Fe2O3)	0.85	0.80 to 1.02	
.A/F (Al2O3 / Fe2O3)	1.36	0.66 Minimum	
Performance Improver Fly Ash (%)	5.00	5.0 % Maximum	
Vater required for paste of standard consiste	ncy (%) 28.25		

The above cement complies with the requirements of IS 269 : 2015 For ORDINARY PORTLAND CEMENT 53G  $\,$ 

Computer generated Report, hence Signature is not required

For BIS certification details see website bis.org.in

For Zuari Cement Ltd MANAGER (QC)