



## **Zuari Cement Ltd**

SOLAPUR GRINDING UNIT SOLAPUR, MAHARASHTRA



## **ENGINEERED FOR DURABILITY**

	TEST CERTIFICATE PORTLAND POZZOLANA CEMENT	Week No 25
į.		Year 2022
SAMPLE	RESULT OBTAINED	REQUIREMENT
TEST TYPE	FROM TEST	IS-1489(PART-1):2015
PHYSICAL REQUIREMENTS		
. Fineness -Blaine(M²/Kg)	322	Not less than 300 M²/Kg
.Soundness:		
Autoclave Expansion (%)	0.024	Not more than 0.8 %
3.Le Chatelier Expansion (in mm)	1.00	Not more than 10 mm
.Setting Time (in minutes)		
A.Initial	165	Not less than 30 minutes
3.Final	235	Not more than 600 minutes
Compressive Strength (MPa)		
A.72 ± 1 hr.(3 days)	23.2	Not Less than 16 MPa
3.168 ± 2 hr.(7 days)	32.9	Not Less than 22 MPa
C.672 ± 4 hr.(28 days)	UT	Not Less than 33 MPa
5.Dry Shrinkage %	UT	Not more than 0.15 %
CHEMICAL REQUIREMENTS		
.Loss on Ignition (% by mass)	1.51	5 % Maximum
Insoluble Residue (% by mass)		
ı.Max	32.00	x+4(100-x)/100
3.Min		x*0.6
		where $\boldsymbol{x}$ is the declared % Fly ash in the given Portland Pozzolana Cement
3.Magnesium Oxide (MgO) (% by mass)	1.31	6.0 % Maximum
I.Total Sulphur content calculated as (SO3) (%	by mass) 2.64	3.5 % Maximum
i.Chlorides (% by mass)	0.030	0.10 % Maximum
6.Declared % Fly Ash	35.00	15.0% TO 35.0 %
Water required for paste of standard consiste	ency (%) <b>30.50</b>	

The above cement complies with the requirements of IS 1489(PART-1): 2015 For PORTLAND POZZOLANA CEMENT

Computer generated Report, hence Signature is not required For BIS certification details see website bis.org.in

For Zuari Cement Ltd MANAGER (QC)