

ENGINEERED FOR DURABILITY

TEST CERTIFICATE		Week No	6
PORTLAND POZZOLANA CEMENT		Year	2022
SAMPLE TEST TYPE	RESULT OBTAINED FROM TEST	REQUIREMENT IS-1489(PART-1):2015	
PHYSICAL REQUIREMENTS			
1. Fineness -Blaine(M ² /Kg)	325	Not less than 300 M ² /Kg	
2.Soundness:			
A.Autoclave Expansion (%)	0.037	Not more than 0.8 %	
B.Le Chatelier Expansion (in mm)	1.00	Not more than 10 mm	
3.Setting Time (in minutes)			
A.Initial	160	Not less than 30 minutes	
B.Final	220	Not more than 600 minutes	
4.Compressive Strength (MPa)			
A.72 ± 1 hr.(3 days)	26.2	Not Less than 16 MPa	
B.168 ± 2 hr.(7 days)	33.7	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			
1.Loss on Ignition (% by mass)	1.34	5 % Maximum	
2.Insoluble Residue (% by mass)			
A.Max	31.45	$x+4(100-x)/100$	
B.Min		$x*0.6$	
		where x is the declared % Fly ash in the given Portland Pozzolana Cement	
3.Magnesium Oxide (MgO) (% by mass)	1.29	6.0 % Maximum	
4.Total Sulphur content calculated as (SO ₃) (% by mass)	2.30	3.5 % Maximum	
5.Chlorides (% by mass)	0.022	0.10 % Maximum	
6.Declared % Fly Ash	35.00	15.0% TO 35.0 %	
Water required for paste of standard consistency (%)	31.00		

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)