

WORK TEST CERTIFICATE



Portland Pozzolana Cement

	tched during Week No.	04		From	22/01/2018	То	28/01/2018		
Test C Dated	Certificate No.	04 06/02/20			ence No.				
S.N.	Parameters			sults ained	•		•		
	Chemical Composition								
	Loss on Ignition (% by mass)		2.0		Not More than 5.0%				
	Magnesia (MgO) (% by mass)		1	1.0 Not More than 6.0%		Requirement as IS 1489 (Part I):2 flore than 5.0% flore than 6.0% flore than 0.1% (for gene ore than 0.05% for presures flore than [X + 4.0 (100-) ass than (0.6 X), Where ared Pozzolana content in the sess than 300 sess than 300 sess than 33.0 sess than 300 sess than 600 sess than 300 sess than 300			
1	Sulphuric Anhydride (SO ₃): (% by Mass)		2.6		Not More than 3.5%				
'	Chloride Content (% by Mass)			014	Not More than 0.1% (for general purpose) & not more than 0.05% for pre-stressed structures				
	Insoluble Residue (% by mass)		29.9		Not More than [X + 4.0 (100-X) / 100] & Not less than (0.6 X), Where "X" is the declared Pozzolana content in cement.				
	Physical Analysis								
2	Fineness								
2	Blaine's Specific Surface Are	` "	3	40	Not Less than 300	ot Less than 300			
	Compressive Strength (MF	Pa)				Requirement as per IS 1489 (Part I):2015 It More than 5.0% It More than 0.1% (for general purpose) & more than 0.05% for pre-stressed uctures It More than [X + 4.0 (100-X) / 100] & tess than (0.6 X), Where "X" is the clared Pozzolana content in cement. It Less than 300 It less than 33.0 It less than 33.0 It less than 600 It more than 600 It more than 0.8 It More than 0.8 It More than 0.15			
3	72 ± 1h (3 Days)		2	9.8	Not less than 16.0				
	168 ± 2h (7 Days)			9.6	Not less than 22.0	0			
	672 ± 4h (28 Days)*		Aw	aited	Not less than 33.0				
	Setting Time (Minutes)								
4	Initial		1	.55	Not less than 30				
	Final		2	15	Not more than 600)			
	Soundness		1			WD/LAB/TC/09 irement as per 89 (Part I):2015 9% 9% 9% % (for general purpose) 5% for pre-stressed + 4.0 (100-X) / 100] & X), Where "X" is the na content in cement.			
5	Le-Chatelier Expansion (mm)		0.5		Not more than 10.0				
	Auto-Clave Expansion (%)		0.	009	Not more than 0.8				
6	Drying Shrinkage (%)*		Aw	aited	Not More than 0.15	5			
7	Normal Consistency (%)		3	0.8					
	Temp. During Testing (°C)			27	$(27 \pm 2)^{0}$ C	-			

* Fly Ash Content in Cement is	(%)	34.0
Try hon contone in comone to	(70)	34.0

The above cement complies with the requirements of IS 1489 (Part I): 2015 for Portland Pozzolana Cement.

Manager (QA)

Pareham Z.

Chief Manager -QA