



## ACC Limited Wadi Cement Works



## **WORK TEST CERTIFICATE**

## **Portland Pozzolana Cement**

Despatc	hed during Week No.	1	From	1-Jan	-2022	То	7-Jan-2022	
	tificate No.	1	Reference	e No.		wcv	V/IMS/QA/FM/18	
Dated	1	5-Feb-2022		1	1			
S.N.	Pa	rameters		Results Obtained	Requirem	ent as per	IS 1489 (Part I) : 2015	
	Chemical Composition							
	Loss on Ignition (% by	mass)		2.25	Not More th	WCW/IMS/QA/FM/18  equirement as per IS 1489 (Part I): 2  It More than 5.0 % It more than 6.0 % It more than 0.1 % for general purpose & nore than 0.05 % for pre-stressed structures  It More than [X + 4.0 (100-X) / 100] & tess than (0.6 X), Where "X" is the declar zzolana content in cement  In Less than 300  In the stripping of the stress of the stres		
	Magnesia (% by mass	)		0.84	Not more th			
	Sulphuric Anhydride SO3 (% by mass)			2.04	Not More than 3.5 %			
1	Chloride Content (% by mass)			0.01	Not more than 0.1 % for general purpose & not more than 0.05 % for pre-stressed structures			
	Insoluble Residue (% by mass)			24.94	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				1			
2	Fineness							
2	Blaine's Specific Surfa	ce Area (m2 / kg)		343	Not Less t	han 300		
	Compressive Streng	th (MPa)			2.25 Not More than 5.0 %  0.84 Not more than 6.0 %  2.04 Not More than 3.5 %  0.01 Not more than 0.1 % for general purpose & more than 0.05 % for pre-stressed structures  24.94 Not More than [X + 4.0 (100-X) / 100] & Not less than (0.6 X), Where "X" is the decla Pozzolana content in cement  343 Not Less than 300  27.9 Not less than 16.0  37.4 Not less than 22.0  52.3 Not less than 33.0  170 Not less than 30  235 Not more than 600  1.00 Not more than 0.8  waited Not more than 0.8  waited Not more than 0.15			
3	72 ± 1h (3 Days)			27.9		an 16.0		
3	168 ± 2h (7 Days)			37.4				
	672 ± 4h (28 Days) *			52.3	Not less th	an 33.0		
	Setting Time (Minute	s)						
4	Initial			170	Not less th	an 30		
	Final			235	Not more t	than 600		
	Soundness					ore than 5.0 % ore than 6.0 % ore than 3.5 % ore than 0.1 % for general purposition 0.05 % for pre-stressed structure ore than [X + 4.0 (100-X) / 100] 8 ss than (0.6 X), Where "X" is the solana content in cement  ess than 300 ess than 16.0 ess than 22.0 ess than 33.0 ess than 30 nore than 600 nore than 0.8 nore than 0.15		
5	Le-Chatelier Expansion (mm)			1.00	Not more than 10.0			
	Auto-Clave Expansion	235 Not more than 600  ansion (mm) 1.00 Not more than 10.0  nsion (%) 0.030 Not more than 0.8						
6	Drying Shrinkage (%)*			Awaited	Not more t	han 0.15		
7	Normal Consistency (%)			30.00				
	Temp. During Testing (	(0C)		27.00	(27 ± 2)0C	<u> </u>		
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* Fly Ash Content in Cement is	(%)	32.00
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The above cement complies with the requirements of IS 1489 (Part I): 2015 for Portland Pozzolana Cement.

Manager (QA)

DGM QC

Registered Office: Cement House, 121, Maharishi Karve Road, Mumbai - 400020