

IS 1489 (Part-1): 2015



ACC

ACC Limited
Wadi Cement Works

**WORK TEST
CERTIFICATE**

IS / ISO 9001



Portland Pozzolana Cement

Despatched during Week No.	1	From	1-Jan-2021	To	7-Jan-2021
Test Certificate No.	1	Reference No.	WCW/IMS/QA/FM/09		
Dated	15-Jan-2021				
S.N.	Parameters	Results Obtained	Requirement as per IS 1489 (Part I) : 2015		
1	Chemical Composition				
	Loss on Ignition (% by mass)	1.65	Not More than 5.0 %		
	Magnesia (% by mass)	0.83	Not more than 6.0 %		
	Sulphuric Anhydride SO ₃ (% by mass)	2.00	Not More than 3.5 %		
	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)	28.20	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				
	Blaine's Specific Surface Area (m ² / kg)	330	Not Less than 300		
3	Compressive Strength (MPa)				
	72 ± 1h (3 Days)	28.2	Not less than 16.0		
	168 ± 2h (7 Days)	37.3	Not less than 22.0		
	672 ± 4h (28 Days) *	Awaited	Not less than 33.0		
4	Setting Time (Minutes)				
	Initial	165	Not less than 30		
	Final	270	Not more than 600		
5	Soundness				
	Le-Chatelier Expansion (mm)	1.00	Not more than 10.0		
	Auto-Clave Expansion (%)	0.040	Not more than 0.8		
6	Drying Shrinkage (%)*	Awaited	Not more than 0.15		
7	Normal Consistency (%)	29.00			
	Temp. During Testing (0C)	27.00	(27 ± 2)0C		
* Fly Ash Content in Cement is (%)					34.00

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

Manager (QA)

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