

IS 1489 (Part-1): 2015



CM/L 1209132

# ACC

ACC Limited  
Wadi Cement Works

**WORK TEST CERTIFICATE**

IS / ISO 9001



## Portland Pozzolana Cement

Despatched during Week No.	13	From	26-03-2019	To	01-04-2019
Test Certificate No.	13	Reference No.		WCW/IMS/QA/FM/09	
Dated	30-04-2019				
S.N.	Parameters	Results Obtained	Requirement as per IS 1489 (Part I) : 2015		
1	<b>Chemical Composition</b>				
	Loss on Ignition (% by mass)	2.40	Not More than 5.0 %		
	Magnesia (% by mass)	0.90	Not more than 6.0 %		
	Sulphuric Anhydride SO <sub>3</sub> (% by mass)	2.40	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)	28.30	Not More than $[X + 4.0 (100-X) / 100]$ & Not less than (0.6 X), Where "X" is the declared Pozzolana content in cement		
<b>Physical Analysis</b>					
2	<b>Fineness</b>				
	Blaine's Specific Surface Area (m <sup>2</sup> / kg)	322	Not Less than 300		
3	<b>Compressive Strength (MPa)</b>				
	72 ± 1h (3 Days)	28.1	Not less than 16.0		
	168 ± 2h (7 Days)	37.4	Not less than 22.0		
	672 ± 4h (28 Days) *	57.5	Not less than 33.0		
4	<b>Setting Time (Minutes)</b>				
	Initial	160	Not less than 30		
	Final	245	Not more than 600		
5	<b>Soundness</b>				
	Le-Chatelier Expansion (mm)	1.00	Not more than 10.0		
	Auto-Clave Expansion (%)	0.070	Not more than 0.8		
6	Drying Shrinkage (%)*	Awaited	Not more than 0.15		
7	Normal Consistency (%)	30.00			
	Temp. During Testing (°C)	27.00	(27 ± 2)°C		
* 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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