

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.	11	From	11-Mar-2020	To	17-Mar-2020
Test Certificate No.	11	Reference No.		WCW/IMS/QA/FM/09	
Dated	15-Apr-2020				
S.N.	Parameters	Results Obtained	Requirement as per IS 1489 (Part I) : 2015		
1	<b>Chemical Composition</b>				
	Loss on Ignition (% by mass)	1.80	Not More than 5.0 %		
	Magnesia (% by mass)	0.78	Not more than 6.0 %		
	Sulphuric Anhydride SO <sub>3</sub> (% by mass)	2.10	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)	321	Not Less than 300		
3	<b>Compressive Strength (MPa)</b>				
	72 ± 1h (3 Days)	28.4	Not less than 16.0		
	168 ± 2h (7 Days)	37.7	Not less than 22.0		
	672 ± 4h (28 Days) *	56.4	Not less than 33.0		
4	<b>Setting Time (Minutes)</b>				
	Initial	175	Not less than 30		
	Final	260	Not more than 600		
5	<b>Soundness</b>				
	Le-Chatelier Expansion (mm)	1.00	Not more than 10.0		
	Auto-Clave Expansion (%)	0.040	Not more than 0.8		
6	Drying Shrinkage (%)*	0.04	Not more than 0.15		
7	Normal Consistency (%)	29.50			
	Temp. During Testing (0C)	27.00	(27 ± 2)0C		

* Fly Ash Content in Cement is (%)	34.00
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The above cement complies with the requirements of IS 1489 (Part I): 2015 for Portland Pozzolana Cement.

  
Manager (QA)

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