

IS 1489 (Part-1): 2015



CM/L 1209132

# ACC

 ACC Limited  
 Wadi Cement Works

**WORK TEST CERTIFICATE**

IS / ISO 9001



QMS

## ACC SURAKSHA

Despatched during Week No.	08	From	19/02/2017	To	25/02/2017
Test Certificate No. Dated	08 06/03/2017	Reference No.	WD/LAB/TC/09		
S.N.	Parameters	Results Obtained	Requirement as per IS 1489 (Part I):2015		
1	<b>Chemical Composition</b>				
	Loss on Ignition (% by mass)	1.7	Not More than 5.0%		
	Magnesia (MgO) (% by mass)	1.2	Not More than 6.0%		
	Sulphuric Anhydride (SO <sub>3</sub> ): (% by Mass)	2.8	Not More than 3.5%		
	Chloride Content (% by Mass)	0.012	Not More than 0.1% (for general purpose) & not more than 0.05% for pre-stressed structures		
	Insoluble Residue (% by mass)	26.2	Not More than $[X + 4.0 (100-X) / 100]$ & Not less than (0.6 X), Where "X" is the declared Pozzolana content in cement.		
2	<b>Physical Analysis</b>				
	<b>Fineness</b>				
	Blaine's Specific Surface Area (m <sup>2</sup> / kg)	347	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)	36.7	Not less than 22.0		
	672 ± 4h (28 Days)*	Awaited	Not less than 33.0		
4	<b>Setting Time (Minutes)</b>				
	Initial	155	Not less than 30		
	Final	210	Not more than 600		
5	<b>Soundness</b>				
	Le-Chatelier Expansion (mm)	1.0	Not more than 10.0		
	Auto-Clave Expansion (%)	0.01	Not more than 0.8		
6	Drying Shrinkage (%)*	Awaited	Not More than 0.15		
7	<b>Normal Consistency (%)</b>				
	Temp. During Testing (°C)	30.5			
		27	(27 ± 2) <sup>0</sup> C		

* Fly Ash Content in Cement is (%)	29.7
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The above cement complies with the requirements of IS 1489 (Part I): 2015 for Portland Pozzolana Cement.

Manager (QA)

Chief Manager Production