

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.	15	From	9-Apr-2022	To	15-Apr-2022
Test Certificate No.	15	Reference No.		WCW/IMS/QA/FM/18	
Dated	14-May-2022				

S.N.	Parameters	Results Obtained	Requirement as per IS 1489 (Part I) : 2015
<b>Chemical Composition</b>			
1	Loss on Ignition (% by mass)	2.22	Not More than 5.0 %
	Magnesia (% by mass)	0.89	Not more than 6.0 %
	Sulphuric Anhydride SO <sub>3</sub> (% by mass)	2.03	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)	24.60	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>			
<b>Fineness</b>			
2	Blaine's Specific Surface Area (m <sup>2</sup> / kg)	337	Not Less than 300
<b>Compressive Strength (MPa)</b>			
3	72 ± 1h (3 Days)	27.9	Not less than 16.0
	168 ± 2h (7 Days)	37.4	Not less than 22.0
	672 ± 4h (28 Days) *	54.9	Not less than 33.0
<b>Setting Time (Minutes)</b>			
4	Initial	165	Not less than 30
	Final	240	Not more than 600
<b>Soundness</b>			
5	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 (%)	30.50	
	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)

DGM QC

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