

IS 1489 (Part-1): 2015



CM/L 1209132

ACC

 ACC Limited
 Wadi Cement Works

WORK TEST CERTIFICATE

IS / ISO 9001



ACC SURAKSHA

Despatched during Week No.	12	From	19/03/2017	To	25/03/2017
Test Certificate No. Dated	12 03/04/2017	Reference No.	WD/LAB/TC/09		
S.N.	Parameters	Results Obtained	Requirement as per IS 1489 (Part I):2015		
1	Chemical Composition				
	Loss on Ignition (% by mass)	1.7	Not More than 5.0%		
	Magnesia (MgO) (% by mass)	1.1	Not More than 6.0%		
	Sulphuric Anhydride (SO ₃): (% by Mass)	2.8	Not More than 3.5%		
	Chloride Content (% by Mass)	0.016	Not More than 0.1% (for general purpose) & not more than 0.05% for pre-stressed structures		
	Insoluble Residue (% by mass)	26.4	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	Physical Analysis				
	Fineness				
3	Blaine's Specific Surface Area (m ² / kg)	343	Not Less than 300		
	Compressive Strength (MPa)				
	72 ± 1h (3 Days)	29.2	Not less than 16.0		
	168 ± 2h (7 Days)	39.1	Not less than 22.0		
4	672 ± 4h (28 Days)*	Awaited	Not less than 33.0		
	Setting Time (Minutes)				
	Initial	145	Not less than 30		
5	Final	195	Not more than 600		
	Soundness				
	Le-Chatelier Expansion (mm)	0.5	Not more than 10.0		
6	Auto-Clave Expansion (%)	0.005	Not more than 0.8		
	Drying Shrinkage (%)*	Awaited	Not More than 0.15		
7	Normal Consistency (%)				
	Temp. During Testing (°C)	30.0	(27 ± 2) ⁰ C		

* Fly Ash Content in Cement is (%)	30.0
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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