

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.	4	From	22-Jan-2022	To	28-Jan-2022
Test Certificate No.	4	Reference No.		WCW/IMS/QA/FM/18	
Dated	5-Mar-2022				

S.N.	Parameters	Results Obtained	Requirement as per IS 1489 (Part I) : 2015
1	Chemical Composition		
	Loss on Ignition (% by mass)	2.36	Not More than 5.0 %
	Magnesia (% by mass)	0.85	Not more than 6.0 %
	Sulphuric Anhydride SO ₃ (% 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)	26.90	Not More than $[X + 4.0 (100-X) / 100]$ & Not less than (0.6 X), Where "X" is the declared Pozzolana content in cement
Physical Analysis			
2	Fineness		
	Blaine's Specific Surface Area (m ² / kg)	336	Not Less than 300
3	Compressive Strength (MPa)		
	72 ± 1h (3 Days)	28.4	Not less than 16.0
	168 ± 2h (7 Days)	37.9	Not less than 22.0
	672 ± 4h (28 Days) *	58.0	Not less than 33.0
4	Setting Time (Minutes)		
	Initial	180	Not less than 30
	Final	245	Not more than 600
5	Soundness		
	Le-Chatelier Expansion (mm)	1.00	Not more than 10.0
	Auto-Clave Expansion (%)	0.040	Not more than 0.8
6	Drying Shrinkage (%)*	0.05	Not more than 0.15
7	Normal Consistency (%)	30.25	
	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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