

IS 1489 (Part-1): 2015



CM/L 1209132

ACC

ACC Limited
Wadi Cement Works

WORK TEST CERTIFICATE

IS / ISO 9001



QMS

Portland Pozzolana Cement

Despatched during Week No.	3	From	15-Jan-2022	To	21-Jan-2022
Test Certificate No.	3	Reference No.		WCW/IMS/QA/FM/18	
Dated	26-Feb-2022				

S.N.	Parameters	Results Obtained	Requirement as per IS 1489 (Part I) : 2015
1	Chemical Composition		
	Loss on Ignition (% by mass)	2.48	Not More than 5.0 %
	Magnesia (% by mass)	0.89	Not more than 6.0 %
	Sulphuric Anhydride SO ₃ (% by mass)	2.08	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)	23.71	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)	338	Not Less than 300
3	Compressive Strength (MPa)		
	72 ± 1h (3 Days)	27.8	Not less than 16.0
	168 ± 2h (7 Days)	36.6	Not less than 22.0
	672 ± 4h (28 Days) *	54.4	Not less than 33.0
4	Setting Time (Minutes)		
	Initial	170	Not less than 30
	Final	230	Not more than 600
5	Soundness		
	Le-Chatelier Expansion (mm)	1.00	Not more than 10.0
	Auto-Clave Expansion (%)	0.030	Not more than 0.8
6	Drying Shrinkage (%)*	0.03	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

Registered Office: Cement House, 121, Maharishi Karve Road, Mumbai - 400020