

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.		11	From	12-Mar-2022	To	18-Mar-2022
Test Certificate No.		11	Reference No.		WCW/IMS/QA/FM/18	
Dated		16-Apr-2022				
S.N.	Parameters			Results Obtained	Requirement as per IS 1489 (Part I) : 2015	
1	Chemical Composition					
	Loss on Ignition (% by mass)			1.90	Not More than 5.0 %	
	Magnesia (% by mass)			0.86	Not more than 6.0 %	
	Sulphuric Anhydride SO3 (% by mass)			1.99	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)			24.13	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 (m2 / kg)			336	Not Less than 300	
3	Compressive Strength (MPa)					
	72 ± 1h (3 Days)			27.6	Not less than 16.0	
	168 ± 2h (7 Days)			38.3	Not less than 22.0	
	672 ± 4h (28 Days) *			56.0	Not less than 33.0	
4	Setting Time (Minutes)					
	Initial			160	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 (%)			0.040	Not more than 0.8	
6	Drying Shrinkage (%)*			Awaited	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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