

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.		38	From	16-Sep-2020	To	22-Sep-2020
Test Certificate No.		38	Reference No.		WCW/IMS/QA/FM/09	
Dated		30-Sep-2020				
S.N.	Parameters			Results Obtained	Requirement as per IS 1489 (Part I) : 2015	
1	Chemical Composition					
	Loss on Ignition (% by mass)			1.80	Not More than 5.0 %	
	Magnesia (% by mass)			0.78	Not more than 6.0 %	
	Sulphuric Anhydride SO3 (% by mass)			2.50	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)			28.30	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)			325	Not Less than 300	
3	Compressive Strength (MPa)					
	72 ± 1h (3 Days)			29.4	Not less than 16.0	
	168 ± 2h (7 Days)			40.1	Not less than 22.0	
	672 ± 4h (28 Days) *			Awaited	Not less than 33.0	
4	Setting Time (Minutes)					
	Initial			180	Not less than 30	
	Final			270	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 (%)			29.50		
	Temp. During Testing (0C)			27.00	(27 ± 2)0C	
* Fly Ash Content in Cement is (%)						34.00

The above cement complies with the requirements of IS 1489 (Part I): 2015 for Portland Pozzolana Cement.

Manager (QA)

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