

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.		10	From	4-Mar-2021	To	10-Mar-2021
Test Certificate No.		10	Reference No.		WCW/IMS/QA/FM/18	
Dated		14-Mar-2021				
S.N.	Parameters		Results Obtained	Requirement as per IS 1489 (Part I) : 2015		
1	Chemical Composition					
	Loss on Ignition (% by mass)		2.15	Not More than 5.0 %		
	Magnesia (% by mass)		0.84	Not more than 6.0 %		
	Sulphuric Anhydride SO3 (% by mass)		1.90	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)		27.50	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)		333	Not Less than 300		
3	Compressive Strength (MPa)					
	72 ± 1h (3 Days)		27.5	Not less than 16.0		
	168 ± 2h (7 Days)		35.5	Not less than 22.0		
	672 ± 4h (28 Days) *		Awaited	Not less than 33.0		
4	Setting Time (Minutes)					
	Initial		175	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 (%)		0.030	Not more than 0.8		
6	Drying Shrinkage (%)*		Awaited	Not more than 0.15		
7	Normal Consistency (%)		28.50			
	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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