



Despatched during Week No.	05	From	28/01/2019	To	03/02/2019
Test Certificate No./ Dated	05/ 14th Feb. 2019	Reference No.	AFCL/P&QC/TC/19/0005		
S.N.	Parameters	Results Obtained	Requirement as per IS 1489 (Part I):2015		
1	Chemical Composition (% by mass)				
	Loss on Ignition	2.7	Not More than 5.0		
	Magnesia (MgO)	1.8	Not More than 6.0		
	Sulphuric Anhydride (SO ₃)	2.5	Not More than 3.5		
	Chloride Content	0.01	Not More than 0.1 (for general purpose) & not more than 0.05 for pre-stressed structures		
1	Insoluble Residue	28.4	Max. Insoluble Residue Not More than $[X + 4.0 (100-X) / 100]$,		
			Min. Insoluble Residue Not less than (0.6 X),		
			Where "X" is the declared Pozzolana content in cement.		
Physical Analysis					
2	Fineness (m²/kg)				
	Blaine's Specific Surface Area	417	Not Less than 300		
3	Compressive Strength (MPa)				
	72 ± 1h (3 Days)	26.0	Not less than 16.0		
	168 ± 2h (7 Days)	32.3	Not less than 22.0		
	672 ± 4h (28 Days)	52.0	Not less than 33.0		
4	Setting Time (Minutes)				
	Initial	160	Not less than 30		
	Final	210	Not more than 600		
5	Soundness				
	Le-Chatelier Expansion (mm)	0.5	Not more than 10.0		
	Auto-Clave Expansion (%)	0.20	Not more than 0.8		
6	Drying Shrinkage (%)	0.020	Not More than 0.15		
7	Normal Consistency (%)				
	Temp. During Testing (°C)	27.0	(27 ± 2) ⁰ C		

* Declared Pozzolana (Fly-Ash) Content in Cement is (%)	30.0
* Compressive Strength (in MPa) of 28 Days & Drying Shrinkage (in %) values are of Week No	02 & 01 respectively

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

K S. Birdi

P&QC Manager

[Signature]

Plant Head