

IS 16415

EMAMI CEMENT LIMITED, PANAGARH

CM/L 5710040709

(A Unit of Emami Group)

Village : - Kotagram, Panagarh

Dist : Burdwan, West Bengal, Pin: 713148



TEST CERTIFICATE

SLAG SILICATE

Date of Issue : 01/01/2019

Sample Description : Week No.- 47/ 2018

Despatch Period : 19/11/2018 to 25/11/2018

S.No.	Test Carried Out	Requirement as Per IS: 16415-2015	Result Obtained
CHEMICAL TESTING			
1	Total Loss on Ignition (% by mass)	5.0 % Max	2.34
	Magnesia (% by mass)	8.0 % Max	3.61
	Sulphuric Anhydride(SO ₃) (% by mass)	3.50 % Max	2.66
	Chloride (% by mass)	0.10 % Max	0.001
	Sulphide Sulphur (S)	0.75% Max	0.39
	Insoluble Residue (% by mass)	Maximum $X + (4.0 (100-X) / 100)$ Minimum 0.6X Where "X" is the declared % of Fly Ash in given Portland Pozzolana Cement.	22.14
PHYSICAL TESTING			
2	Fineness		
	Specific Surface (m ² / Kg)	Minimum 300	358
3	Normal Consistency (%)	-	31.00
Setting Time (minutes)			
4	a) Initial	Minimum 30	165
	b) Final	Maximum 600	225
Soundness			
5	a) Le-Chatlier Expansion (mm)	Maximum 10	0.50
	b) Autoclave Expansion (%)	Maximum 0.8	0.04
Compressive Strength (Mpa)			
6	a. 24.0 hr. (1 day)	NA	13.2
	b. 72 +/- 1 hr. (3 days)	Minimum 16	29.0
	c. 168 +/- 2 hr.(7 days)	Minimum 22	40.2
	d. 672 +/- 4 hr. (28 days)	Minimum 33	55.5
7	Drying Shrinkage (%)	Maximum 0.15	0.03
8	Slag in Cement (%)	Minimum 20 % and Maximum 50 %	28.0
9	Fly Ash in Cement (%)	Minimum 15 % and Maximum 35 %	24.6

Environment condition during test , Temperature =27±2°C and RH >65%

The above cement complies with the requirements of IS 16415 : 2015 for Composite Cement.

Prepared by

Authorised Signatory

Regd. Office : Acropolis, 15th Floor, 1858/1, Rajdanga Main Road, Sector 1, East Kolkata Township, Kolkata – 700107, West Bengal, India