

IS 455



CM/L 5710035708

NU VISTA LIMITED

(Formerly Emami Cement Limited)

PANAGARH CEMENT WORKS

An ISO 9001:2015, 14001:2015 & 18001:2007 Certified Unit

Address :- Plot No-B5A,B6,B8 & B5B/A Panagarh Industrial Park of WBIDC
Block – Aushgram II, Village Kota Dist: Purba Bardhaman, West Bengal 713148



TEST CERTIFICATE PORTLAND SLAG CEMENT

Date of Issue : 9th July 2020			
Sample Description : W23 M06 Y2020		Despatch Period : 03rd June 2020 to 09th June 2020	
S.No.	Test Carried Out	Requirement as Per IS: 455-2015	Result Obtained
CHEMICAL TESTING			
1	Total Loss on Ignition (% by mass)	5.0 % Max	1.06
	Magnesia (% by mass)	10.0 % Max	5.36
	Sulphuric Anhydride(SO ₃) (% by mass)	3.50 % Max	3.19
	Chloride (% by mass)	0.10 % Max	0.002
	Sulphide Sulphur (S)	1.5% Max	0.44
	Insoluble Residue (% by mass)	4.0% Max	1.19
PHYSICAL TESTING			
2	Fineness		
	Specific Surface (m ² / Kg)	Minimum 225	358
3	Normal Consistency (%)	-	28.50
4	Setting Time (minutes)		
	a) Initial	Minimum 30	155
	b) Final	Maximum 600	220
5	Soundness		
	a) Le-Chatlier Expansion (mm)	Maximum 10	0.50
	b) Autoclave Expansion (%)	Maximum 0.8	0.04
6	Compressive Strength (Mpa)		
	a. 24.0 hr. (1 day)	NA	12.6
	b. 72 +/- 1 hr. (3 days)	Minimum 16	28.1
	c. 168 +/- 2 hr.(7 days)	Minimum 22	40.8
	d. 672 +/- 4 hr. (28 days)	Minimum 33	54.90
7	Slag in Cement (%)	Minimum 25 % and Maximum 70 %	70.00

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

The above cement complies with the requirements of IS 455 : 2015 for Portland Slag Cement.

Cement Used for Structure other than prestressed structure.

T. Ghosh

Prepared by

Devid

Authorised Signatory

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