



**DOUBLE
BULL
CEMENT**

NU VISTA LIMITED
(Formerly Emami Cement Limited)
JAJPUR CEMENT WORKS



IS 455



CM/L 5200089605

Kalinga Nagar Industrial Complex (KNIC)
At/PO-Manitira, Tehsil-Danagadi, Dist: Jajpur Odisha - 755026

TEST CERTIFICATE PORTLAND SLAG CEMENT

Date of Issue : 25th September 2020			
Sample Description : W34 M08 Y2020		Despatch Period : 19th Aug 2020 to 25th Aug 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	1.01
	Magnesia (% by mass)	10.0 % Max	5.87
	Sulphuric Anhydride(SO ₃) (% by mass)	3.50 % Max	2.31
	Chloride (% by mass)	0.10 % Max	0.017
	Sulphide Sulphur (S)	1.5% Max	0.29
	Insoluble Residue (% by mass)	4.0% Max	1.12
PHYSICAL TESTING			
2	Fineness		
	Specific Surface (m ² / Kg)	Minimum 225	355
3	Normal Consistency (%)	-	29.25
4	Setting Time (minutes)		
	a) Initial	Minimum 30	195
	b) Final	Maximum 600	255
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	13.3
	b. 72 +/- 1 hr. (3 days)	Minimum 16	27.4
	c. 168 +/- 2 hr.(7 days)	Minimum 22	37.5
	d. 672 +/- 4 hr. (28 days)	Minimum 33	53.3
7	Slag in Cement (%)	Minimum 25 % and Maximum 70 %	68.30

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 to be used for structures other than prestressed structure.

Prepared by

Authorised Signatory

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