



**DOUBLE
BULL
CEMENT**

IS 1489 (Part 1) 2015



CM/L 5200086595

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



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

TEST CERTIFICATE
PORTLAND POZZOLANA CEMENT

Date of Issue : 11th Oct 2020			
Sample Description : W34 M08 Y2020		Despatch Period : 19th August 2020 to 25th August 2020	
S.No.	Test Carried Out	Requirement as Per IS: 1489 (Part-1)- 2015	Result Obtained
CHEMICAL TESTING			
1	Total Loss on Ignition (% by mass)	5.0 % Max	1.59
	Magnesia (% by mass)	6.0 % Max	3.22
	Sulphuric Anhydride (% by mass)	3.50 % Max	2.77
	Chloride (% by mass)	0.10 % Max	0.015
	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.	31.49
PHYSICAL TESTING			
2	Fineness		
	Specific Surface (m^2 / Kg)	Minimum 300	379
3	Normal Consistency (%)	-	29.50
4	Setting Time (minutes)		
	a) Initial	Minimum 30	180
	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	16.4
	b. 72 +/- 1 hr. (3 days)	Minimum 16	28.4
	c. 168 +/- 2 hr.(7 days)	Minimum 22	37.3
	d. 672 +/- 4hr. (28 days)	Minimum 33	53.40
7	Drying Shrinkage (%)	Maximum 0.15	0.03
8	Fly Ash in Cement (%)	Minimum 15 % and Maximum 35 %	34.6

Environment condition during test , Temperature = $27 \pm 2^\circ C$ and RH >65%

The above cement complies with the requirements of IS 1489 (Part-1) : 2015 for Portland Pozzolana Cement (Flyash Based)

Prepared by

Authorised Signatory

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