



**DOUBLE
BULL
CEMENT**



DOUBLE BULL

PORTLAND POZZOLANA CEMENT (PPC)

Double Bull Portland Pozzolana Cement (PPC) ensures two-stage hydration process involving clinker and pozzolanic material resulting in denser gel formation. Usage of high quality fly ash has a supplementary advantage of high workability, high strength with durability and performance advantages for those who build and occupy structures of all kinds.



APPLICATIONS:

- Perfect for all residential constructions like houses, high-rise buildings and infrastructure and projects involving roads, highways, flyovers, bridges, culverts, etc.
- Mass concrete projects like dams and foundations
- Sewage and effluent treatment plants
- It's more cohesive, durable and suited for RCC work of any type

ADVANTAGES:



Resistant to
Chemical Attacks



More durable



Lower Permeability



Better cohesiveness
and workability



Less Crack in
Construction



Prevents Rusting
of Reinforcements

Mazbooti Ummeed Se Zyada



**DOUBLE
BULL
CEMENT**

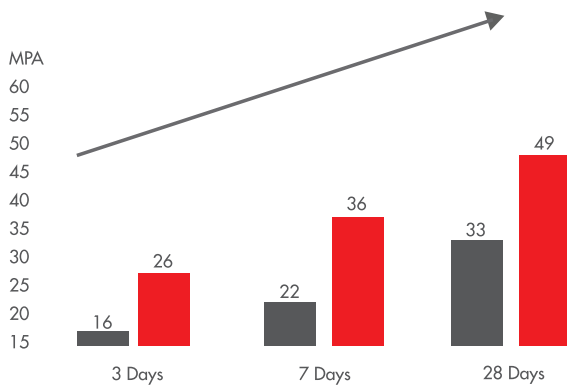


MAZBOOTI UMMEED SE ZYADA

■ BIS Requirement ■ Double Bull Test Finding

COMPRESSIVE STRENGTH:

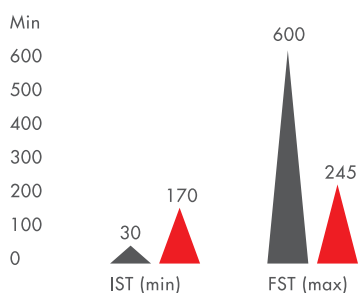
The maximum load the cement mortar can sustain without fracture.



Compressive strength mein 60% behtar.

SETTING TIME:

The period in which the cement goes from fluid to solid.



Setting time mein behtar workability.

Mazbooti Ummeed Se Zyada



**DOUBLE
BULL
CEMENT**



IS 1489 (Part 1) 2015  CM/L 5710035910		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				
Date of Issue : 9th July 2020				
Sample Description : W22 M05 Y2020		Despatch Period : 27th May 2020 to 02nd June 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	1.96	
	Magnesia (% by mass)	6.0 % Max	2.58	
	Sulphuric Anhydride (% by mass)	3.50 % Max	3.23	
	Chloride (% by mass)	0.10 % Max	0.002	
	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.	35.70	
PHYSICAL TESTING				
2	Fineness			
	Specific Surface (m^2 / Kg)	Minimum 300	370	
3	Normal Consistency (%)	-	32.00	
4	Setting Time (minutes)			
	a) Initial	Minimum 30	170	
	b) Final	Maximum 600	230	
5	Soundness			
	a) Le-Chatlier Expansion (mm)	Maximum 10	0.50	
	b) Autoclave Expansion (%)	Maximum 0.8	0.03	
6	Compressive Strength (Mpa)			
	a. 24.0 hr. (1 day)	NA	16.1	
	b. 72 +/- 1 hr. (3 days)	Minimum 16	32.3	
	c. 168 +/- 2 hr.(7 days)	Minimum 22	39.8	
	d. 672 +/- 4hr. (28 days)	Minimum 33	55.80	
7	Drying Shrinkage (%)	Maximum 0.15	0.03	
8	Fly Ash in Cement (%)	Minimum 15 % and Maximum 35 %	35.0	
Environment condition during test , Temperature =27±2°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		
Regd. Office : Acropolis, 15th Floor, 1858/1, Rajdanga Main Road, Kasba, Kolkata – 700107, West Bengal, India. Tel: (033) 6627 1301 Corporate Office: 687 Anandapur, E.M. Bypass, Kolkata - 700107. Tel: (033) 66136264 CIN: U26940WB2007PLC116503				

www.nuvoco.com

customer.care@doublebullcement.com



1800 1022 008

Mazbooti Ummeed Se Zyada