



**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



Improved strength  
and viscosity



Water-resistant



Lower Permeability



Better cohesiveness  
and workability

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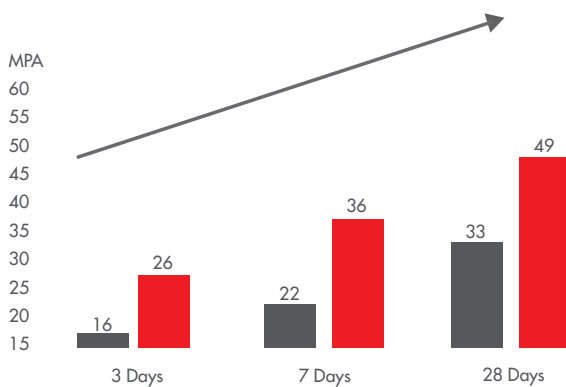


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■ BIS Requirement      ■ Double Bull Test Finding

## COMPRESSIVE STRENGTH:

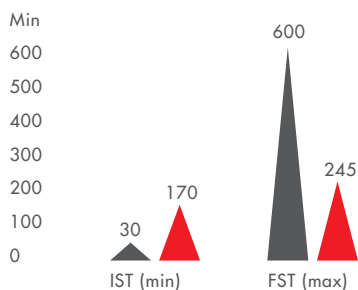
The maximum load the cement mortar can sustain without fracture.



**Compressive strength mein 60% behtar.**

## SETTING TIME:

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







**Setting time mein behtar workability.**

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<b>IS 1489 (Part 1) 2015</b>  <b>CM/L 5710035910</b>		<b>NU VISTA LIMITED</b> <b>(Formerly Emami Cement Limited)</b> 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		 <b>DOUBLE BULL CEMENT</b> Mazbooti Ummeed Se Zyada
<b>TEST CERTIFICATE</b>				
<b>Date of Issue : 9th July 2020</b>				
<b>Sample Description : W22 M05 Y2020</b>		<b>Despatch Period : 27th May 2020 to 02nd June 2020</b>		
<b>S.No.</b>	<b>Test Carried Out</b>	<b>Requirement as Per IS: 1489 (Part-1)- 2015</b>	<b>Result Obtained</b>	
<b>CHEMICAL TESTING</b>				
1	Total Loss on Ignition (% by mass)	5.0 % Max	<b>1.96</b>	
	Magnesia ( % by mass)	6.0 % Max	<b>2.58</b>	
	Sulphuric Anhydride ( % by mass)	3.50 % Max	<b>3.23</b>	
	Chloride (% by mass)	0.10 % Max	<b>0.002</b>	
	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.	<b>35.70</b>	
<b>PHYSICAL TESTING</b>				
2	<b>Fineness</b>			
	Specific Surface ( $m^2 / Kg$ )	Minimum 300	<b>370</b>	
3	<b>Normal Consistency (%)</b>	-	<b>32.00</b>	
4	<b>Setting Time (minutes)</b>			
	a) Initial	Minimum 30	<b>170</b>	
	b) Final	Maximum 600	<b>230</b>	
5	<b>Soundness</b>			
	a) Le-Chatelier Expansion (mm)	Maximum 10	<b>0.50</b>	
	b) Autoclave Expansion (%)	Maximum 0.8	<b>0.03</b>	
6	<b>Compressive Strength (Mpa)</b>			
	a. 24.0 hr. ( 1 day)	NA	<b>16.1</b>	
	b. 72 +/- 1 hr. ( 3 days)	Minimum 16	<b>32.3</b>	
	c. 168 +/- 2 hr.( 7 days)	Minimum 22	<b>39.8</b>	
	d. 672 +/- 4hr. ( 28 days)	Minimum 33	<b>55.80</b>	
7	<b>Drying Shrinkage (%)</b>	Maximum 0.15	<b>0.03</b>	
8	<b>Fly Ash in Cement (%)</b>	Minimum 15 % and Maximum 35 %	<b>35.0</b>	
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				

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