



**DOUBLE
BULL
CEMENT**



DOUBLE BULL

OPC-53 GRADE

Double Bull Ordinary Portland Cement (OPC-53) is produced using a highly specialised process for optimum particle size distribution, superior crystalline structure and balanced phase composition. This results in high strength and durability of structures.

APPLICATIONS:

- Specialised construction work like bridges, highways, flyovers, culverts, buildings, slip formwork
- All type of planned and RCC work
- Suitable for constructing houses, high-rise buildings, roads, etc.
- For high strength concrete using different mix designs
- Suitable for pre-stressed pipes/poles
- All types of specialised concrete repair work like grouting



ADVANTAGES:



Optimum Cement Consumption in Mix Designs



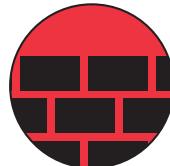
Better Workability



Better Cohesiveness



Long Term Durability for the Concrete



Faster Rate of Construction



Superior Surface Finish

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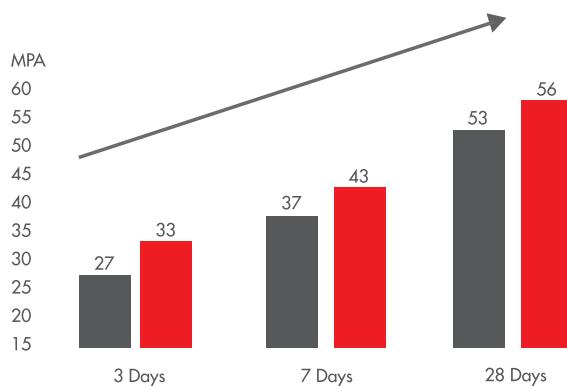


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■ BIS Requirement ■ Double Bull Test Finding

COMPRESSIVE STRENGTH:

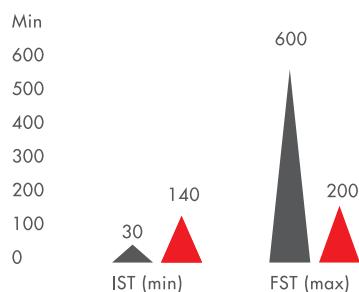
The maximum load the cement mortar can sustain without fracture.



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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 IS 269 : 2015 CM/L- 5900013411		NU VISTA LIMITED, RISDA <i>(Formerly known as Emami Cement Ltd)</i> Village : - Risda, Suhela Road Dist : Baloda Bazar- 493 332 (C.G.)	
TEST CERTIFICATE ORDINARY PORTLAND CEMENT - 53 Grade			
Date of Issue : 16-07-2020 Sample Description : W25 M06 Y2020 Despatch Period : 17/06/2020 to 23/06/2020			
S.No.	Test Carried Out	Requirement as Per IS: 269-2015	Result Obtained
CHEMICAL TESTING			
1	Lime Saturation Factor	Not greater than 1.02 and not less than 0.80	0.89
	Ratio of % Alumina to that of Iron Oxide Al_2O_3 / Fe_2O_3	0.66 Minimum	1.61
	Total Loss on Ignition (% by mass)	4.0 Maximum	1.92
	Magnesia (% by mass)	6.0 Maximum	3.80
	Sulphuric Anhydride (% by mass)	3.5 Maximum	2.70
	Chloride (% by mass)	0.10 Maximum	0.011
Insoluble Residue (% by mass)	5.0 Maximum	1.20	
PHYSICAL TESTING			
2	Fineness (m^2 / Kg)	225 Minimum	310
3	Normal Consistency (%)	-	27.50
4	Setting Time (minutes)		
	a) Initial	30 Minimum	175
5	b) Final	600 Maximum	235
	Soundness		
6	a) Le-Chatlier Expansion (mm)	10 Maximum	1.0
	b) Autoclave Expansion (%)	0.8 Maximum	0.15
Compressive Strength (Mpa)			
a. 24 hr. (1day)	NA	26.8	
b. 72 ± 1 hr. (3 days)	27 Minimum	37.7	
c. 168 ± 2 hr. (7 days)	37 Minimum	47.0	
d. 672 ± 4 hr. (28 days)	53 Minimum	60.1	
PI used Limestone - 4.5% Environment condition during test , Temperature = $27 \pm 2^\circ C$ and RH > 65%			
The above cement complies with the requirements of IS 269 : 2015 for 53 Grade Ordinary Portland Cement.			
 Prepared by		 Authorised Signatory	
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