



# J. K. Cement WORKS

NIMBAHERA (Raj.)

J.K.SUPER

## TEST CERTIFICATE

Run Date : 24/09/2012

1. Type Of Cement : **PORTLAND POZZOLANA CEMENT (Part 2) (IS : 1489-1991)**

2. The test report pertains to the average sample of **Month number : 7 (Month Name : JULY )**

SAMPLE TEST TYPE	RESULT OBTAINED FROM TEST	REQUIREMENT IS : 1489-1991
<b>3 CHEMICAL TEST</b>		
A	Magnesia % by Mass	0.81 6% Max
B	Total Sulphur Contents as SO <sub>3</sub>	2.33 3% Max
C	Insoluble residue % by Mass	24.75 $X + (4.0(100-X)/100)$ Where X is the declared % of Pozzolana in the given Portland Pozzolana Cement
D	Loss on Ignition	2.36 5% Max
E	Pozzolana Mixing	22/+3.00 (10-25)
F	Alkalies % K <sub>2</sub> O	0.41
G	% Na <sub>2</sub> O	0.12
<b>4 PHYSICAL TEST</b>		
A	Fineness	377.1 300 Sqr.M/Kg. Min
B	Soundness	
1	Lechatelier	1.00 10 mm Max
2	Autoclave	0.036 0.8% Max
C	Setting Time	
1	Initial	140 30 minutes Min.
2	Final	190 600 Minutes Max.
D	Compressive Strength	
1	3 Days (72 +/- 1 Hrs.)	26.5 16.0 Mpa Min.
2	7 Days (168 +/- 2 Hrs.)	36.0 22.0 Mpa Min
3	28 Days (672 +/- 4 Hrs.)	54.0 33.0 Mpa Min
E	Percentage of water required for standard consistency	31.0
F	Drying Shrinkage	0.032 0.15% Max.

**Remark:** The above cement sample conforms to IS : 1489-1991, Part 2 for Portland Pozzolana Cement

**For J.K. Cement WORKS**

**P.K.Sharma**  
**Dy G.M. (Q.C.)**