



J. K. Cement WORKS

NIMBAHERA (Raj.)

J.K.SUPER

TEST CERTIFICATE

Run Date : 12/04/2013

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

2. The test report pertains
to the average sample of **Month number : 02 (Month Name : FEBRUARY)**

SAMPLE TEST TYPE	RESULT OBTAINED FROM TEST	REQUIREMENT IS : 1489-1991
3 CHEMICAL TEST		
A	Magnesia % by Mass	0.81 6% Max
B	Total Sulphur Contents as SO ₃	2.32 3% Max
C	Insoluble residue % by Mass	26.30 $X + (4.0(100-X)/100)$ Where X is the declared % of Pozzolana in the given Portland Pozzolana Cement
D	Loss on Ignition	2.36 5% Max
E	Pozzolana Mixing	25+/-3 (15-35)
F	Alkalies % K ₂ O	0.42
G	% Na ₂ O	0.11
4 PHYSICAL TEST		
A	Fineness	377.3 300 Sqr.M/Kg. Min
B	Soundness	
1	Lechatelier	1.00 10 mm Max
2	Autoclave	0.032 0.8% Max
C	Setting Time	
1	Initial	145 30 minutes Min.
2	Final	195 600 Minutes Max.
D	Compressive Strength	
1	3 Days (72 +/- 1 Hrs.)	27.0 16.0 Mpa Min.
2	7 Days (168 +/- 2 Hrs.)	37.0 22.0 Mpa Min
3	28 Days (672 +/- 4 Hrs.)	54.5 33.0 Mpa Min
E	Percentage of water required for standard consistency	32.0
F	Drying Shrinkage	0.028 0.15% Max.

Remark: The above cement sample conforms to IS : 1489-1991,
Part 1 for Portland Pozzolana Cement

For J.K. Cement WORKS

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