



J. K. Cement WORKS
NIMBAHERA (Raj.)

TEST CERTIFICATE

Run Date : 24/09/2012

1. Type Of Cement : **43 GRADE ORDINARY PORTLAND CEMENT (IS : 8112-1989)**

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 : 8112-1989
3 CHEMICAL TEST		
A	Lime Saturation Factor Cao-0.7SO3 ----- 2.8 SiO2+1.2Al2O3+0.65 Fe2O3	0.870 0.66 TO 1.02
B	Ratio Of Alumina to that of Iron Oxide % of Al2O3/Fe2O3	1.56 0.66 MIN.
C	Magnesia % by Mass	0.89 6% Max
D	Total Sulphur Contents as SO3	2.18 Not more than 2.5 and 3.0 when C3A percent by Mass is 5 or less & greater than 5 respectively
E	Insoluble residue % by Mass	1.82 3% Max
F	Loss on Ignition	1.84 5% Max
G	Alkalies % K2O	0.40
H	Total Chloride Contents	0.016 0.10% Max
I	% Na2O	0.10
4 PHYSICAL TEST		
A	Fineness	273.3 225 Sqr. m/Kg. Min
B	Soundness	
1	Lechatelier	1.00 10 mm Max
2	Autoclave	0.040 0.8% Max
C	Setting Time	
1	Initial	130 30 Minutes Min.
2	Final	180 600 Minutes Max.
D	Compressive Strength	
1	3 Days (72 +/- 1 Hrs.)	30.5 23.0 Mpa Min.
2	7 Days (168 +/- 2 Hrs.)	40.0 33.0 Mpa Min.
3	28 Days (672 +/- 4 Hrs.)	54.5 43.0 mpa Min.
E	Percentage of water required for standard consistency	27.5

Remark: The above cement sample conforms to IS : 8112-1989 for **43 Grade Portland cement** For **J.K. Cement WORKS**

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