

**Binani**

BRAJ BINANI GROUP

**BINANI CEMENT LIMITED**

(AN ISO 9001, 14001 &amp; OHSAS 18001 CERTIFIED CO.)

BINANIGRAM, PINDWARA

R/15-21

**TEST CERTIFICATE****"43 GRADE"****Ordinary Portland Cement**

IS : 8112



CM/L-8214160

PARTICULARS	TEST RESULTS	REQUIREMENTS AS PER IS-8112-2013
<b>Chemical Requirements :</b>		
1. Lime Saturation Factor $\frac{\text{CaO}-0.7\text{SO}_3}{(2.8\text{SiO}_2+1.2\text{Al}_2\text{O}_3+0.65\text{Fe}_2\text{O}_3)}$	0.83	0.66 to 1.02
2. Ratio of % of Alumina to that of Iron Oxide (% $\text{Al}_2\text{O}_3$ /% $\text{Fe}_2\text{O}_3$ )	1.70	0.66 min
3. Insoluble Residue (% by Mass)	3.22	4.00 max
4. Magnesia (% by Mass)	1.70	6.00 max
5. Sulphuric Anhydride (% by Mass)	2.02	3.50 max
6. Total Loss on Ignition (%)	3.25	5.00 max
7. Total Chlorides (%)	0.017	0.10 max
<b>Physical Requirements</b>		
1. Consistency (%)	29.50	
2. Fineness ( $\text{m}^2/\text{Kg}$ )	298	225 min.
3. Setting Time (Minutes)		
(a) Initial	115	30 min
(b) Final	170	600 max.
4. Soundness		
(a) Le-Chatelier (mm)	1.0	10.0 max
(b) Autoclave (%)	0.10	0.8 max
5. Compressive Strength (MPa)		
(a) $72 \pm 1$ h (3 days)	36	23 min
(b) $168 \pm 2$ h (7 days)	46	33 min
(c) $672 \pm 4$ h (28 days)	54	43 min 58 max

ABOVE CEMENT COMPLIES WITH THE REQUIREMENTS OF IS-8112 : 2013 FOR ORDINARY PORTLAND CEMENT "43 GRADE"

DATE OF DESPATCH : 17/01/2015  
 WEEK NO. : 3  
 CHECKED BY :

BINANI CEMENT LIMITED

  
Authorised Signatory  
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