

**Binani**

BRAJ BINANI GROUP

**BINANI CEMENT LIMITED**

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

**BINANIGRAM, PINDWARA**

R/15-22

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

IS : 12269



CM/L-8214059

PARTICULARS	TEST RESULTS	REQUIREMENTS AS PER IS-12269-2013
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**Chemical Requirements :**

1. Lime Saturation Factor $\text{CaO}-0.7\text{SO}_3$ ( $2.8\text{SiO}_2+1.2\text{Al}_2\text{O}_3+0.65\text{Fe}_2\text{O}_3$ )	0.85	0.8 to 1.02
2. Ratio of % of Alumina to that of Iron Oxide (% $\text{Al}_2\text{O}_3$ /% $\text{Fe}_2\text{O}_3$ )	1.75	0.66 min
3. Insoluble Residue (% by Mass)	2.80	4.00 max
4. Magnesia (% by Mass)	1.66	6.00 max
5. Sulphuric Anhydride (% by Mass)	1.81	3.50 max
6. Total Loss on Ignition(%)	2.54	4.00 max
7. Total Chlorides (%)	0.018	0.10 max

**Physical Requirements**

1. Consistency (%)	31.00	
2. Fineness (m <sup>2</sup> / Kg)	321	225 min.
3. Setting Time (Minutes)		
(a) Initial	100	30 min
(b) Final	155	600 max.
4. Soundness		
(a) Le.Chatelier (mm)	1.0	10.0 max
(b) Autoclave (%)	0.12	0.8 max
5. Compressive Strength (MPa)		
(a) 72 ± 1 h (3 days)	41	27 min
(b) 168 ± 2 h (7 days)	50	37 min
(c) 672 ± 4 h (28 days)	62	53 min

ABOVE CEMENT COMPLIES WITH THE REQUIREMENTS OF IS.12269 : 2013 FOR ORDINARY PORTLAND CEMENT "53 GRADE"

DATE OF DESPATCH 15/01/2015

WEEK NO. 3

CHECKED BY :

**BINANI CEMENT LIMITED**  
Authorised Signatory