

# TEST CERTIFICATE

## Ordinary Portland Cement "43 GRADE"



PARTICULARS	TEST RESULTS	REQUIREMENTS AS PER IS-8112-2013
<b>Chemical Requirements :</b>		
1. Lime Saturation Factor CaO-0.7SO <sub>3</sub> (2.8SiO <sub>2</sub> +1.2Al <sub>2</sub> O <sub>3</sub> +0.65Fe <sub>2</sub> O <sub>3</sub> )	0.85	0.66 to 1.02
2. Ratio of % of Alumina to that of Iron Oxide (% Al <sub>2</sub> O <sub>3</sub> /%Fe <sub>2</sub> O <sub>3</sub> )	1.75	0.66 min
3. Insoluble Residue (% by Mass)	3.59	4.00 max
4. Magnesia (% by Mass)	1.90	6.00 max
5. Sulphuric Anhydride (% by Mass)	2.14	3.50 max
6. Total Loss on Ignition(%)	2.79	5.00 max
7. Total Chlorides (%)	0.017	0.10 max
<b>Physical Requirements</b>		
1. Consistency (%)	29.25	
2. Fineness (m <sup>2</sup> / Kg)	299	225 min.
3. Setting Time (Minutes)		
(a) Initial	125	30 min
(b) Final	175	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)	35	23 min
(b) 168 ± 2 h (7 days)	44	33 min
(c) 672 ± 4 h (28 days)	56	43 min 58 max

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

DATE OF DESPATCH : 23/09/2016

WEEK NO. : 39

CHECKED BY : *Dangra*

**BINANI CEMENT LIMITED**

*Dangra*  
Authorised Signatory

