

QUALITY PARTICULARS OF CEMENT O.P.C
(Chemical analysis and Physical Parameters).

Date: 30-08-2007.

<u>Characteristics.</u>	<u>Unit.</u>	<u>Results.</u>	<u>IS - 8112 - 1989.</u>
<u>CHEMICAL REQUIREMENTS.</u>			
LOI (Loss on ignition)	%	0.71	Max. 5.0
IR (Insoluble Residue).	%	0.21	Max. 5.0
MgO (Magnesia).	%	1.01	Max. 6.0
SO ₃ (Sulpuric Anhydride).	%	1.97	Max. 3.0
A/F (Alumina Iron Ratio).	Ratio.	1.57	Min. 0.66
LSF (Lime Saturation Factor).	Ratio.	0.91	Min. 0.66
C ₃ A (Tricalcium Aluminate).	%	8.98	Not Specified.
Performance improver	%	0	Max. 5.0
<u>PHYSICAL REQUIREMENTS.</u>			
Standards Consistency.	%	26	Not Specified.
<u>Setting Time.</u>			
Initial Time.	minutes.	102	Min. 30
Final Time	minutes.	147	Max. 600
Fineness	M ² / Kg.	328	Min. 225
<u>Soundness.</u>			
Le-Chetlier's Expansion	mm	1.5	Max. 10
Auto Clave Expansion.	%	0.088	Max. 0.8
<u>Compressive Strength.</u>			
3 - Days.	MPa	32.11	Min. 23
7 - Days.	MPa	42.53	Min. 33
28 - Days.	MPa	49.35	Min. 43
Tempreture During Testing.	C ⁰		Min. 25 Max. 29