





## DASTAN, PALSANA, DIST. SURAT (GUJ.) TEST CERTIFICATE FOR PORTLAND POZZOLANA CEMENT

LICENCE NO. CM/L-7200051895

Week No : 18 (30.04.2018 to 06.05.2018)				Date of Issue: 12.06.2018	
Sr. No	Particulars	IS Clause	Test Method	Requirement of IS:1489 (Part-I)	Results Obtained
Chemical Requirements					
1	Loss on ignition(% by mass)	6	IS : 4032 - 1985	Not more than 5.0	1.81
2	Magnesia(% by mass)		IS : 4032 - 1985	Not more than 6.0	2.36
3	Sulphuric Anhydride (SO <sub>3</sub> )(% by mass)		IS : 4032 - 1985	Not more than 3.5	2.88
4	Insoluble Residue(% by mass)		IS : 4032 - 1985	4(100-x) x+ 100 (x=where x is the declare % age of Fly Ash)	23.36
5	Chloride(% by mass)		IS : 4032 - 1985	Not more than 0.1	0.020
6	Declared % of Fly Ash (≤)	-	-	Not less than 15% and Not more than 35%	34.0
Physical Requirements					
1	Fineness (m²/kg)	7	IS : 4031 (Part-2) - 1999	Not less than 300	392
2	Normal Consistency (%)		IS: 4031 (Part-4) - 1988	-	34.25
3	Soundness: a) Le-chatelier expansion (mm) b) Autoclave test expansion (%)		IS: 4031 (Part-3) - 1988	Not more than 10 Not more than 0.8	0.5 0.050
4	Setting Time: a) Initial setting time (minutes) b) Final setting time (minutes)		IS : 4031 (Part-5) - 1988	Not less than 30 Not more than 600	140 190
5	Compressive Strength: a) 72 ± 1 Hours (3 Days) (MPa) b) 168 ± 2 Hours (7 Days) (MPa) c) 672 ± 4 Hours (28 Days) (MPa)		IS : 4031 (Part-6) - 1988	Not less than 16 Not less than 22 Not less than 33	30.2 39.6 51.4
6	Drying Shrinkage (%)		IS: 4031 (Part-10) - 1988	Not more than 0.15	0.052

REMAKRS: The test results complies with the requirements of IS: 1489(Part-I) (PPC) for All Chemical requirements and Physical requirements including Compressive Strength up to  $\underline{\textbf{28-days}}$  . Test Protocol IS: 4032 and IS: 4031 .

R.A. Alad

Officer **Authorized Signatory**