

VASAVADATTA CEMENT UNIT, SEDAM

An ISO 9001 / ISO 14001 / IS 18001 Certified Company

Test Certificate

BIRLA SHAKTI CEMENT

PORTLAND POZZOLANA CEMENT

Test & Compliance

Week No. 37

Date : 16/10/2015

PARTICULARS OF TEST CARRIED OUT

TEST RESULTS OBTAINED

REQUIREMENTS OF IS 1489 (PART-1) : 1991

CHEMICAL ANALYSIS

1. Total Loss on Ignition (% by mass)	1.65	5.0% Max.
2. Magnesia (% by mass)	1.22	6.0% Max.
3. Sulphuric Anhydride (% by mass)	1.82	3.0% Max.
4. Insoluble Residue (% by mass)	27.30	$X + \frac{4.0(100-X)}{100}$ Max. Where x is % pozzolana
5. Chloride (%)	0.02	0.10 Max.

PHYSICAL ANALYSIS

1. Fineness (m ² / kg)	330	300 Min.
2. <u>Setting Time (Minutes)</u>		
(a) Initial	185	30 Min.
(b) Final	285	600 Max.
3. <u>Soundness</u>		
Le-Chat Expansion (mm)	1.00	10.00 Max.
Auto Clave (%)	0.02	0.8 Max.
4. <u>Compressive Strength (M Pa)</u>		
72 ± 1 h (3 Days)	30.60	16 Min.
168 ± 2 h (7 Days)	36.80	22 Min.
672 ± 4 h (28 Days)	51.90	33 Min.
5. Drying Shrinkage (%)	0.02	0.15 Max.
6. Pozzolana material used (%)	32.50	15 to 35%

THE ABOVE CEMENT COMPLIES WITH IS 1489 (PART-1) : 1991 FOR PORTLAND POZZOLANA CEMENT (FLY ASH BASED)


HOD (Production & Quality Control)

