

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. 3

Date : 19/02/2016

PARTICULARS OF TEST CARRIED OUT

TEST RESULTS OBTAINED

REQUIREMENTS OF IS 1489 (PART-1) : 1991

CHEMICAL ANALYSIS

| | | |
|---------------------------------------|-------|---|
| 1. Total Loss on Ignition (% by mass) | 1.66 | 5.0% Max. |
| 2. Magnesia (% by mass) | 1.26 | 6.0% Max. |
| 3. Sulphuric Anhydride (% by mass) | 1.75 | 3.0% Max. |
| 4. Insoluble Residue (% by mass) | 27.00 | $X + \frac{4.0(100-X)}{100}$ Max. Where x is % pozzolana |
| 5. Chloride (%) | 0.02 | 0.10 Max. |

PHYSICAL ANALYSIS

| | | |
|-----------------------------------|-------|------------|
| 1. Fineness (m ² / kg) | 336 | 300 Min. |
| 2. Setting Time (Minutes) | | |
| (a) Initial | 180 | 30 Min. |
| (b) Final | 270 | 600 Max. |
| 3. Soundness | | |
| Le-Chat Expansion (mm) | 0.50 | 10.00 Max. |
| Auto Clave (%) | 0.05 | 0.8 Max. |
| 4. Compressive Strength (M Pa) | | |
| 72 ± 1 h (3 Days) | 31.50 | 16 Min. |
| 168 ± 2 h (7 Days) | 38.90 | 22 Min. |
| 672 ± 4 h (28 Days) | 51.90 | 33 Min. |
| 5. Drying Shrinkage (%) | 0.03 | 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)

