

# 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 : **30/01/2017**

#### PARTICULARS OF TEST CARRIED OUT

#### TEST RESULTS OBTAINED

#### REQUIREMENTS OF IS 1489 (PART-1) : 1991

#### CHEMICAL ANALYSIS

- Total Loss on Ignition (% by mass)
- Magnesia (% by mass)
- Sulphuric Anhydride (% by mass)
- Insoluble Residue (% by mass)

1.62  
1.24  
1.85  
27.70

5.0% Max.  
6.0% Max.  
3.0% Max.  
 $X + \frac{4.0(100-X)}{100}$  Max.  
Where x is % pozzolana

- Chloride (%)

0.02

0.10 Max.

#### PHYSICAL ANALYSIS

- Fineness (m<sup>2</sup>/kg)
- Setting Time (Minutes)
  - Initial
  - Final
- Soundness
  - Le-Chat Expansion (mm)
  - Auto Clave (%)
- Compressive Strength (M Pa)
  - 72 ± 1 h (3 Days)
  - 168 ± 2 h (7 Days)
  - 672 ± 4 h (28 Days)
- Drying Shrinkage (%)
- Pozzolana material used (%)

336

300 Min.

165  
255

30 Min.  
600 Max.

0.50  
0.03

10.00 Max.  
0.8 Max.

31.40  
36.40

16 Min.  
22 Min.

Awaited  
Awaited

33 Min.  
0.15 Max.

33.50

15 to 35%

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

  
HOD (Production & Quality Control)

