

Corporate Office: 8-2-626, Reliance Majestic Building, Road No. 10, Banjara Hills, Hyderabad – 500 034, A.P., India. Ph.: +91 40 3006999; Fax: +91 40 30006955  
Works: Chatrasala (V), Kharchkhed (Post) - 585 320, Chincholi (Tq.), Gulbarga Dist.; Ph. +91 08472 305999; Fax: +91 08472 305999

**TEST CERTIFICATE**

IS:1489 (Part-1)



CM/L-4596685

**PORTLAND POZZOLANA CEMENT(FLY ASH BASED)**

Despatched from: 23.09.2016 TO 29.09.2016

Week No: 39

A. PHYSICAL REQUIREMENTS	RESULTS	As per IS 1489 (Part-1) 1991
<b>Fineness:</b>		
a. Specific Surface (m <sup>2</sup> /kg)	336	Not less than 300
b. Normal Consistency (%)	32.50	---
<b>Soundness:</b>		
a. By Le-Chatelier Method (mm)	0.50	Not more than 10 mm
b. By Autoclave (%)	0.028	Not more than 0.8 %
<b>Setting Time:</b>		
a. Initial Setting Time (minutes)	175	Not less than 30
b. Final Setting Time (minutes)	275	Not more than 600
<b>Compressive Strength (MPa)</b>		
a. 3 days	28	Not less than 16
b. 7 days	35	Not less than 22
c. 28 days	53	Not less than 33
d. Drying Shrinkage(%)	Awaited	Not more than 0.15
e. Flyash Addition (%)	32.50	Not more than 35
<b>B. CHEMICAL REQUIREMENTS</b>		
a. Insoluble Residue (%)	28.34	$X+4(100-X)/100$ ; X = % of Flyash
b. Magnesia (%)	0.78	Not more than 6.0
c. Sulphuric Anhydride (%)	2.19	Not more than 3.0
d. Loss on Ignition (%)	2.68	Not more than 5.0
e. Temperature During Testing(°C)	27.50	27 ± 2

*TS. S.M.*

**Analyst (Q.C)**

*APH*

**DGM (Q.C)**