



**J K LAKSHMI**  
CEMENT Ltd.

**JAYKAYPURAM—307019 Dist. Sirohi, Rajasthan**  
**TEST CERTIFICATE FOR PORTLAND POZZOLANA CEMENT**  
**LICENCE NO . CM/L-1234838**



**WEEK No. 46**

**DATE OF ISSUE 26.11.2014**

CHEMICAL / PHYSICAL REQUIREMENTS	SPECIFICATION CLAUSE No.	REQUIREMENT AS PER IS No.1489(PART-I) – 1991 AMENDMENT No. 3	RESULTS OBTAINED
<b>CHEMICAL REQUIREMENTS : #</b>	<b>6</b>		
(i) Loss on ignition, percent by mass, Max. #	6.1	5.0	2.32
(ii) Magnesia, percentage by mass, Max #	6.1	6.0	2.36
(iii) Sulphuric Anhydride (SO <sub>3</sub> ), percent # by mass, Max	6.1	3.0	2.18
(iv) Insoluble Residue, percent by mass Max. #	6.1	4(100-x) x+----- 100 (x=where x is the declare % age of Fly Ash)	27.34
(v) Declared % of Fly Ash	5 & 9.1	Not less than 15% and Not more than 35%	25+/-3
(vi) Chloride, percent by mass #	9.2	Not more than 0.1	0.034
<b>PHYSICAL REQUIREMENTS :</b>	<b>7</b>		
(i) FINENESS : SP. SURFACE	7.1	Not less than 300 m <sup>2</sup> /kg	354
(ii) SOUNDNESS : a) Le-chatelier method Expansion	7.2	Not more than 10 mm	0.50
b) Auto clave test expansion C.NO.T-0720		Not more than 0.8%	0.032
(iii) SETTING TIME	7.3		
a) Initial Setting time in Minutes		30 minutes, minimum	120
b) Final setting time in Minutes		600 minutes, maximum	180
(iv) COMPRESIVE STRENGTH	7.4		
72 ± 1 Hours (3 Days)		16 Mpa, Min	26.2
168 ± 2 Hours (7 Days)		22 Mpa, Min	36.6
672 ± 4 Hours (28 Days)		33 Mpa, Min	Under Testing
(v) Drying Shrinkage	7.5	Not be more than 0.15%	<b>Under Testing</b>



**REMARKS : The test results complies with the requirements of IS: 1489(Part-I) : 1991 for all Chemical requirements and Physical requirements including Compressive Strength up to 7- days .**

Note : Results reported above are the average test results of all samples testing during relevant week. # Not covered unde NABL Accreditation at present

**CERTIFIED**  
**ISO 9001:2008**  
**ISO 14001:2004**  
**OHSAS 18001:2007**

*S. K. Sood*  
HOD(QC)

