



**JK LAKSHMI**  
CEMENT Ltd.

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



TC-5708

**WEEK No. 36**      **ULR NO. TC-5708180000000011F**      **DATE OF ISSUE 17.09.2018**

CHEMICAL / PHYSICAL REQUIREMENTS	SPECIFICATION CLAUSE No.	REQUIREMENT AS PER IS No.1489(PART-I) – 2015	RESULTS OBTAINED
<b>CHEMICAL REQUIREMENTS :</b>	<b>6</b>		
(i) Loss on ignition, percent by mass, Max.	6.1	5.0	2.22
(ii) Magnesia, percentage by mass, Max	6.1	6.0	2.48
(iii) Sulphuric Anhydride (SO <sub>3</sub> ), percent by mass, Max	6.1	3.5	2.48
(iv) Insoluble Residue, percent by mass Max.	6.1	$\frac{4(100-x)}{x+100}$ (x=where x is the declare % age of Fly Ash)	23.05
(v) Insoluble Residue , percent by mass Min	6.1	0.6 x	15.0
(vi) Declared % of Fly Ash	5 & 9.1	Not less than 15% and Not more than 35%	28+/-3
(vii) Chloride, percent by mass	9.2	Not more than 0.1	0.050
<b>PHYSICAL REQUIREMENTS :</b>	<b>7</b>		
(i) FINENESS : SP. SURFACE	7.1	Not less than 300 m <sup>2</sup> /kg	350
(ii) SOUNDNESS : a) Le-chatelier method Expansion	7.2	Not more than 10 mm	1.00
b) Auto clave test expansion		Not more than 0.8%	0.060
(iii) SETTING TIME a) Initial Setting time in Minutes	7.3	30 minutes, minimum	140
b) Final setting time in Minutes		600 minutes, maximum	185
(iv) COMPRESIVE STRENGTH 72 ± 1 Hours (3 Days)	7.4	16 Mpa, Min	29.0
168 ± 2 Hours (7 Days)		22 Mpa, Min	39.0
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) : 2015 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.

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

HOD(QC)

