



NABL

Accredited Laboratory

Certificate No. : TC - 8013

**JK LAKSHMI**  
C E M E N T



DASTAN, PALSANA, DIST. SURAT (GUJ.)

LICENCE NO. CM/L-7200051895

## TEST CERTIFICATE

Customer Name & Address :

Sample Identification : Portland Pozzolana Cement (As per IS 1489 : Part 1 : 2015)

Sample Date : 02.04.2019 to 08.04.2019 (Week No : 14)

Certificate (ULR) No. : TC801319000000097P

Date of Issue: 17.04.2019

Sr. No	Particulars	Test Method	Requirement of IS:1489	Results Obtained
<b>Chemical Requirements</b>				
1	Loss on ignition(% by mass)	IS : 4032 - 1985	Not more than 5.0	<b>1.88</b>
2	Magnesia(% by mass)	IS : 4032 - 1985	Not more than 6.0	<b>2.45</b>
3	Sulphuric Anhydride (SO <sub>3</sub> )(% by mass)	IS : 4032 - 1985	Not more than 3.5	<b>2.72</b>
4	Insoluble Residue(% by mass)	IS : 4032 - 1985	$4(100-x)$ $x + \frac{\quad}{100}$ (x=where x is the declare % age of Fly Ash)	<b>24.85</b>
5	Chloride(% by mass)*	IS : 4032 - 1985	Not more than 0.1	<b>0.023</b>
6	Declared % of Fly Ash ( $\leq$ )	-	Not less than 15% and Not more than 35%	<b>34.0</b>
<b>Mechanical Requirements</b>				
1	Fineness (m <sup>2</sup> /kg)	IS : 4031 (Part-2) - 1999	Not less than 300	<b>367</b>
2	Normal Consistency (%)	IS : 4031 (Part-4) - 1988	-	<b>32.50</b>
3	Soundness : a) Le-chatelier expansion (mm) b) Autoclave test expansion (%)	IS : 4031 (Part-3) - 1988	Not more than 10 Not more than 0.8	<b>0.5</b> <b>0.056</b>
4	Setting Time : a) Initial setting time (minutes) b) Final setting time (minutes)	IS : 4031 (Part-5) - 1988	Not less than 30 Not more than 600	<b>135</b> <b>180</b>
5	Compressive Strength : a) 72 $\pm$ 1 Hours (3 Days) (MPa) b) 168 $\pm$ 2 Hours (7 Days) (MPa) c) 672 $\pm$ 4 Hours (28 Days) (MPa)	IS : 4031 (Part-6) - 1988	Not less than 16 Not less than 22 Not less than 33	<b>28.9</b> <b>37.5</b> <b>Under Testing</b>
6	Drying Shrinkage (%)	IS : 4031 (Part-10) - 1988	Not more than 0.15	<b>Under Testing</b>

Remarks : Results reported above are the average test results of all sample testing during the relevant week.

\*: Not covered under NABL Accreditation at present.

Technical Manager

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Authorized Signatory

