



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 : 23.04.2019 to 29.04.2019 (Week No : 17)

Certificate (ULR) No. : TC801319000000118P

Date of Issue: 08.05.2019

| Sr. No | Particulars | Test Method | Requirement of IS:1489 | Results Obtained |
|--------------------------------|---|-------------------------------|--|--|
| Chemical Requirements | | | | |
| 1 | Loss on ignition(% by mass) | IS : 4032 - 1985 | Not more than 5.0 | 2.02 |
| 2 | Magnesia(% by mass) | IS : 4032 - 1985 | Not more than 6.0 | 2.53 |
| 3 | Sulphuric Anhydride (SO ₃)(% by mass) | IS : 4032 - 1985 | Not more than 3.5 | 2.88 |
| 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) | 25.21 |
| 5 | Chloride(% by mass)* | IS : 4032 - 1985 | Not more than 0.1 | 0.025 |
| 6 | Declared % of Fly Ash (\leq) | - | Not less than 15% and Not more than 35% | 34.0 |
| Mechanical Requirements | | | | |
| 1 | Fineness (m ² /kg) | IS : 4031 (Part-2) - 1999 | Not less than 300 | 374 |
| 2 | Normal Consistency (%) | IS : 4031 (Part-4) - 1988 | - | 32.50 |
| 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 | 0.5 0.050 |
| 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 | 130 180 |
| 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 | 30.2 38.4 Under Testing |
| 6 | Drying Shrinkage (%) | IS : 4031 (Part-10) - 1988 | Not more than 0.15 | Under Testing |

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

