



JK LAKSHMI
CEMENT Ltd.

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



CT-5708

WEEK No. 11

DATE OF ISSUE 26.03.2018

| CHEMICAL / PHYSICAL REQUIREMENTS | SPECIFICATION CLAUSE No. | REQUIREMENT AS PER IS No.1489(PART-I) – 2015 | RESULTS OBTAINED |
|--|--------------------------|---|----------------------|
| CHEMICAL REQUIREMENTS : | 6 | | |
| (i) Loss on ignition, percent by mass, Max. | 6.1 | 5.0 | 3.14 |
| (ii) Magnesia, percentage by mass, Max | 6.1 | 6.0 | 2.47 |
| (iii) Sulphuric Anhydride (SO ₃), percent by mass, Max | 6.1 | 3.5 | 2.53 |
| (iv) Insoluble Residue, percent by mass Max. | 6.1 | $4(100-x)$ x+----- 100 (x=where x is the declare % age of Fly Ash) | 23.21 |
| (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 | 0.069 |
| PHYSICAL REQUIREMENTS : | 7 | | |
| (i) FINENESS : SP. SURFACE | 7.1 | Not less than 300 m ² /kg | 351 |
| (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% | 0.050 |
| (iii) SETTING TIME a) Initial Setting time in Minutes | 7.3 | 30 minutes, minimum | 135 |
| b) Final setting time in Minutes | | 600 minutes, maximum | 175 |
| (iv) COMPRESIVE STRENGTH 72 ± 1 Hours (3 Days) | 7.4 | 16 Mpa, Min | 31.0 |
| 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% | Under Testing |

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)

