



JK LAKSHMI

CEMENT LTD.

JAYKAYPURAM-307019 Dist. Sirohi , Rajasthan
TEST CERTIFICATE FOR JK LAKSHMI 53 – GRADE OPC



LICENCE NO . CML-2361143

CT-5708

WEEK No 05

DATE OF ISSUE 12.02.2018

| CHEMICAL / PHYSICAL REQUIREMENTS | SPECIFICATION CLAUSE No. | REQUIREMENT AS PER IS No. 269 – 2015 AMENDMENT No. 6 | RESULTS OBTAINED |
|---|--------------------------|--|------------------|
| CHEMICAL REQUIREMENTS : | 5 | | |
| (i) Ratio of Percentage of Lime to percentage of silica, alumina and iron oxide CaO – 0.7SO ₃ ----- 2.8 SiO ₂ + 1.2 Al ₂ O ₃ + 0.65 Fe ₂ O ₃ | 5.1 | Not Greater than 1.02 And not less than 0.80 | 0.896 |
| (ii) Ratio of percentage of alumina to that of iron oxide | 5.1 | Not less than 0.66 | 1.55 |
| (iii) Insoluble residue, percent by mass | 5.1 | Not more than 5.0 | 2.12 |
| (iv) Magnesia, percent by mass | 5.1 | Not more than 6.0 | 2.56 |
| v) Total sulphur calculated as Sulphuric Anhydride (SO ₃), Percent by mass | 5.1 | Not more than 3.5 | 3.12 |
| (vi) Total loss on ignition | 5.1 | Not more than 5% | 1.64 |
| (vii) Chloride, percent by mass | 5.1 | Not more than 0.1 | 0.032 |
| PHYSICAL REQUIREMENTS : | 6 | | |
| NC | | % | 27.50 |
| (i) FINENESS : SP. SURFACE | 6.1 | Not less than 225 m ² /kg | 358 |
| (ii) SOUNDNESS : a) Le-chatelier method Expansion | 6.2 | 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 | 6.3 | Not less than 30 | 115 |
| b) Final setting time in Minutes | | Not more than 600 | 155 |
| (iv) COMPRESIVE STRENGTH 72 ± 1 Hours (3 Days) | 6.4 | Not less than 27 MPa | 43.0 |
| 168 ± 2 Hours (7 Days) | | Not less than 37 MPa | 51.0 |
| 672 ± 4 Hours (28 Days) | | Not less than 53 MPa | Under Testing |

REMARKS : The test results complies with the requirements of IS:269 – 2015 for 53 grade OPC for all Chemical Requirements and Physical requirements including Compressive Strength Up to 7- days .
Test Protocol : IS:4032 and IS:4031.

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)

