



JK LAKSHMI
CEMENT LTD.
JAYKAYPURAM-307019 Dist. Sirohi , Rajasthan
TEST CERTIFICATE FOR JK LAKSHMI 43 – GRADE OPC



ULR NO. TC-5708190000000073F
WEEK No 19

LICENCE NO . CM/L-2361143

TC.-5708

DATE OF ISSUE 11.06.2019

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 $\text{CaO} - 0.7\text{SO}_3$ ----- $2.8 \text{SiO}_2 + 1.2 \text{Al}_2\text{O}_3 + 0.65 \text{Fe}_2\text{O}_3$	5.1	Not Greater than 1.02 And not less than 0.66	0.887
(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	2.66
(iv) Magnesia, percent by mass	5.1	Not more than 6.0	2.41
v) Total sulphur calculated as Sulphuric Anhydride (SO_3), Percent by mass	5.1	Not more than 3.5	2.66
(vi) Total loss on ignition	5.1	Not more than 5%	2.61
(vii) Chloride, percent by mass	5.1	Not more than 0.1	0.018
PHYSICAL REQUIREMENTS :	6		
NC		%	27.50
(i) FINENESS : SP. SURFACE	6.1	Not less than 225 m ² /kg	280
(ii) SOUNDNESS :	6.2		
a) Le-chatelier method Expansion		Not more than 10 mm	1.00
b) Auto clave test expansion		Not more than 0.8%	0.042
(iii) SETTING TIME	6.3		
a) Initial Setting time in Minutes		Not less than 30	140
b) Final setting time in Minutes		Not more than 600	175
(iv) COMPRESIVE STRENGTH	6.4		
72 ± 1 Hours (3 Days)		Not less than 23 MPa	34.0
168 ± 2 Hours (7 Days)		Not less than 33 MPa	42.0
672 ± 4 Hours (28 Days)		Not less than 43 MPa * Not more than 58 MPa	50.0

REMARKS : The test results complies with the requirements of IS:269 – 2015 for 43 grade OPC for all Chemical Requirements and Physical requirements including Compressive Strength Up to 28- 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 9001:2015
ISO 14001:2015
OHSAS 18001:2007

S. K. Meena

HOD (QC)

