JK LAKSHMI

CEMENT LTD.

JAYKAYPURAM-307019 Dist. Sirohi. , Rajasthan

TEST CERTIFICATE FOR JK LAKSHMI 53 – GRADE OPC

ULR NO. TC-57081900000000150F **LICENCE NO . CM/L-2361143** **TC**-5708

WEEK No 38 **DATE OF ISSUE 01.10.2019**

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 $\frac{CaO - 0.7SO_3}{2.8 SiO_2 + 1.2 Al_2O_3 + 0.65 Fe_2O_3}$	5.1	Not Greater than 1.02 And not less than 0.80	0.901
(ii) Ratio of percentage of alumina to that of iron oxide	5.1	Not less than 0.66	1.56
(iii) Insoluble residue, percent by mass	5.1	Not more than 5.0	2.92
(iv) Magnesia, percent by mass	5.1	Not more than 6.0	2.58
v) Total sulphur calculated as Sulphuric Anhydride (SO_3), Percent by mass	5.1	Not more than 3.5	3.01
(vi) Total loss on ignition	5.1	Not more than 4%	2.68
(vii) Chloride, percent by mass	5.1	Not more than 0.1	0.008
PHYSICAL REQUIREMENTS :	**6**		
NC		**%**	**27.50**
(i) FINENESS : SP. SURFACE	6.1	Not less than 225 m2/kg	356
(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%	0.060
(iii) SETTING TIME	6.3		
a) Initial Setting time in Minutes		Not less than 30	135
b) Final setting time in Minutes		Not more than 600	170
(iv) COMPRESIVE STRENGTH	6.4		
72 ± 1 Hours (3 Days)		Not less than 27 MPa	41.0
168 ± 2 Hours (7 Days)		Not less than 37 MPa	49.0
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 9001:2015
ISO 14001:2015
OHSAS 18001:2007

HOD (QC)