



**JK LAKSHMI CEMENT QUALITY CONTROL LABORATORIES (JKLCL-QCL)**

JAYKAYPURAM-307019 Dist-SIROHI

TEST REPORT FOR JK LAKSHMI OPC 53 GRADE

TEST REPORT

LICENSE NO-CM/L-2361143



TC-5708

ULR NO.5708250000000542F

PARTY NAME/ADDRESS:JK LAKSHMI CEMENT LTD, PACKING PLANT

DATE OF SAMPLE RECEIVING-09.04.2025

DATES OF TESTING-09.04.2025

SAMPLE ID WEEK NO.14 ( 02.04.2025 to 08.04.2025 )

DATE OF ISSUE-16.04.2025

CHEMICAL/PHYSICAL REQUIRMENTS	TEST METHOD	REQUIRMENT ASPER IS269:2015 (Sixth Revision)	RESULTS OBTAINED
<b>CHEMICAL REQUIREMENTS:-</b>		6	
(i) Ratio of Percentage of Lime to percentage of silica, alumina and iron oxide  CaO-0.7803 ----- 2.8 SiO <sub>2</sub> + 1.2 Al <sub>2</sub> O <sub>3</sub> + 0.65 Fe <sub>2</sub> O <sub>3</sub>		Not Greater than 1.02 And not less than 0.80	0.853
(ii) Ratio of percentage of alumina to that of iron oxide Al <sub>2</sub> O <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub>		Not less than 0.66	1.54
(iii) Insoluble residue, percent by mass	IS-4032-4.10	Not more than 5.0	2.95
(iv) Magnesia, percent by mass	IS-4032-4.8.2	Not more than 6.0	2.57
(v) Total sulphur calculated as Sulphuric Anhydride (SO <sub>3</sub> ), Percent by mass	IS-4032-4.9	Not more than 3.5	3.15
(vi) Total loss on ignition	IS-4032-4.2	Not more than 4%	2.29
(vii) Chloride, percent by mass	IS-4032-4.13 AND - 02/2020	Not more than 0.1	0.009
<b>PHYSICAL REQUIREMENTS :</b>		7	
NC	IS-4031-PART-IV 2019	%	28.5
(I) FINENESS :	IS-4031-PART-II 2018		
SP:SURFACE		Not less than 225 M <sup>2</sup> /Kg	355
(II) SOUNDNESS :			
A) Le-chatelier method Expansion	(IS 4031) (PART-III) 2019	Not more than 10 mm	1.00
b) Auto clave test expansion	(IS 4031) (PART-III) 2019	Not more than 0.8%	0.089
(III) SETTING TIME			
A) Initial setting time in Minutues	(IS-4031) (PART-V) 2019	Not less than 30	140
b) Final Setting time in Minutes	(IS-4031) (PART-V) 2019	Not more than 600	175
(IV) COMPRESIVE STRENGTH:	(IS-4031) (PART-VI) 2019		
72 ± 1 Hours (3 Days)		Not Less than 27 Mpa	38.3
168 ± 2 Hours (7 Days)		Not less than 37 Mpa	48.4
672 ± 4 Hours (28 Days)		Not less than 53 Mpa	UNDER TESTING

REMARKS: The Test results comply with the requirements of IS269:2015 for OPC 53 GRADE all Chemical and Physical Requirements. All the test carried out at 27±2°C temp. & humidity min. 65%. Protocol:IS:4032 and IS:4031.

Note: Results reported above are the average test results of all samples testing during relevent week. All the results are related with the sample as provided by the plant & sample condition was satisfactory. The report shall not be reproduced except in full or part without approval of the laboratory can provide assurance that parts of a report are not taken out of context. Retention period of the sample shall be upto 28 days.

CERTIFIED  
ISO 9001:2015  
ISO 14001:2015  
OHSAS 18001:2007  
EnMS ISO 50001:2011

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End of Report