Cement Limited					
JSW OPC Cement : 53 GRADE THE LEADERS' CHOICE TEST CERTIFICATE Ordinary Portland Cement as per IS 269:2015					
			REF.: JSW/QA/2023/A-01		DATE : <b>15-10-2023</b>
			WEEK NO. : 37		10-09-2023 16-09-2023
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 269:2015			
(A) CHEMICAL COMPOSITION					
(i) Lime Saturation Factor	0.93	0.80 to 1.02			
(ii) Alumina Modulus, Ratio	1.56	0.66 Minimum			
(iii) Insoluble residue (IR) % by mass	0.40	5.0 Maximum			
(iv) Magnesia (MgO) % by mass	2.51	6.0 Maximum			
(v) Sulphuric Anhydride % by mass	2.35	3.5 Maximum			
(vi) Loss on ignition (LOI), % by mass	2.11	4.0 Maximum			
(vii) Chloride , % by mass	0.016	0.10 Maximum			
(B) PHYSICAL TESTING					
1. Fineness of Cement					
Sp.Surface (m <sup>2</sup> /kg)	320	225 minimum			
2. Soundness					
Le-Chatelier Expansion (mm)	1.00	10 Maximum			
Autoclave Expansion (%)	0.052	0.8 Maximum			
3. Setting Time					
Initial (in Minutes)	180	30 Minimum			
Final (in Minutes)	225	600 Maximum			
4. Compressive Strength (MPa)					
(a) At 72 ± 1 Hr.	37.28	27 MPa Minimum			
(b) At 168 ± 2 Hrs.	45.77	37 MPa Minimum			
(c) At 672 ± 4 Hrs.	56.07	53 MPa Minimum			
5. Normal Consistency	29.25				
6. Performance Improver (Slag) %	4.00	5 % MAX			

## Remarks :

1. Temperature during testing -  $27 \pm 2^{\circ}$  c.

2. Ordinary Portland Cement conforms to the requirements of IS 269:2015 in all respects.

3. Specific Gravity :- 3.16

## Address:

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nsr

Prepared By Officer-QC



Checked By SH -QC

