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 : 12-11-2023
			WEEK NO. : 41	08-10-2023 14-10-2023	
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 269:2015			
(A) CHEMICAL COMPOSITION					
(i) Lime Saturation Factor	0.95	0.80 to 1.02			
(ii) Alumina Modulus, Ratio	1.59	0.66 Minimum			
(iii) Insoluble residue (IR) % by mass	0.41	5.0 Maximum			
(iv) Magnesia (MgO) % by mass	2.50	6.0 Maximum			
(v) Sulphuric Anhydride % by mass	2.60	3.5 Maximum			
(vi) Loss on ignition (LOI), % by mass	2.37	4.0 Maximum			
(vii) Chloride , % by mass	0.014	0.10 Maximum			
(B) PHYSICAL TESTING					
1. Fineness of Cement					
Sp.Surface (m ² /kg)	321	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)	190	30 Minimum			
Final (in Minutes)	230	600 Maximum			
4. Compressive Strength (MPa)					
(a) At 72 ± 1 Hr.	39.41	27 MPa Minimum			
(b) At 168 ± 2 Hrs.	46.00	37 MPa Minimum			
(c) At 672 ± 4 Hrs.	55.82	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:

Officer-QC

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Prepared By



Checked By SH -QC

