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>29-10-2023</b>				
WEEK NO. : 39		24-09-2023 30-09-2023			
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 269:2015			
	2.22	0.80 to 1.02			
(i) Lime Saturation Factor	0.93	0.66 Minimum			
(ii) Alumina Modulus, Ratio	1.60	5.0 Maximum			
(iii) Insoluble residue (IR) % by mass	0.42	6.0 Maximum			
(iv) Magnesia (MgO) % by mass	2.57	3.5 Maximum			
(v) Sulphuric Anhydride % by mass	2.37	4.0 Maximum			
(vi) Loss on ignition (LOI), % by mass	2.15	0.10 Maximum			
(vii) Chloride , % by mass	0.014	0.10 Maximum			
(B) PHYSICAL TESTING					
1. Fineness of Cement	224				
Sp.Surface (m <sup>2</sup> /kg) <b>2. Soundness</b>	321	225 minimum			
	1.00				
Le-Chatelier Expansion (mm)	1.00	10 Maximum			
Autoclave Expansion (%)	0.051	0.8 Maximum			
3. Setting Time	475				
Initial (in Minutes)	175	30 Minimum			
Final (in Minutes)	220	600 Maximum			
4. Compressive Strength (MPa)	20.05				
(a) At 72 $\pm$ 1 Hr.	38.95	27 MPa Minimum			
(b) At $168 \pm 2$ Hrs.	45.68	37 MPa Minimum			
(c) At $672 \pm 4$ Hrs.	55.93	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:

JSW CEMENT LIMITED Village- Khar Karavi, Post Office- Gadab Taluka- Pen, District- Raigad,PIN-402107

Maharashtra. +91 2143 277601/2

Prepared By Officer-QC

Checked By SH -QC

