



## JSW OPC Cement : 53 GRADE

**THE LEADERS' CHOICE**

### TEST CERTIFICATE

Ordinary Portland Cement as per IS 269:2015

REF.: JSW/QA/2022 35

DATE : 10-09-2022

WEEK NO. : 35

27-08-2022 02-09-2022

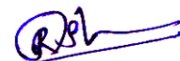
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 269:2015
<b>(A) CHEMICAL COMPOSITION</b>		
(i) Lime Saturation Factor	0.94	0.80 to 1.02
(ii) Alumina Modulus, Ratio	1.67	0.66 Minimum
(iii) Insoluble residue (IR) % by mass	0.39	5.0 Maximum
(iv) Magnesia (MgO) % by mass	2.74	6.0 Maximum
(v) Sulphuric Anhydride % by mass	2.43	3.5 Maximum
(vi) Loss on ignition (LOI), % by mass	2.62	4.0 Maximum
(vii) Chloride , % by mass	0.018	0.10 Maximum
<b>(B) PHYSICAL TESTING</b>		
<b>1. Fineness of Cement</b>		
Sp.Surface (m <sup>2</sup> /kg)	323	225 minimum
<b>2. Soundness</b>		
Le-Chatelier Expansion (mm)	1.00	10 Maximum
Autoclave Expansion (%)	0.048	0.8 Maximum
<b>3. Setting Time</b>		
Initial (in Minutes)	200	30 Minimum
Final (in Minutes)	250	600 Maximum
<b>4. Compressive Strength (MPa)</b>		
(a) At 72 ± 1 Hr.	39.37	27 MPa Minimum
(b) At 168 ± 2 Hrs.	46.77	37 MPa Minimum
(c) At 672 ± 4 Hrs.	RA	53 MPa Minimum
<b>5. Specific Gravity</b>	3.14	--

**Remarks :**

- Temperature during testing - 27 ± 2° c.
- Ordinary Portland Cement conforms to the requirements of IS 269:2015 in all respects.

**Address:**

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HOD-Quality Control