



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 : 27-08-2023

WEEK NO. : 30

23-07-2023 29-07-2023

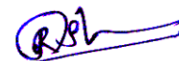
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 269:2015
(A) CHEMICAL COMPOSITION		
(i) Lime Saturation Factor	0.92	0.80 to 1.02
(ii) Alumina Modulus, Ratio	1.56	0.66 Minimum
(iii) Insoluble residue (IR) % by mass	0.44	5.0 Maximum
(iv) Magnesia (MgO) % by mass	2.61	6.0 Maximum
(v) Sulphuric Anhydride % by mass	2.52	3.5 Maximum
(vi) Loss on ignition (LOI), % by mass	2.05	4.0 Maximum
(vii) Chloride, % by mass	0.013	0.10 Maximum
(B) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface (m ² /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)	175	30 Minimum
Final (in Minutes)	215	600 Maximum
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hr.	39.36	27 MPa Minimum
(b) At 168 ± 2 Hrs.	46.70	37 MPa Minimum
(c) At 672 ± 4 Hrs.	56.90	53 MPa Minimum
5. Normal Consistency	28.50	--
6. Performance Improver (Slag) %	4.00	5 % MAX

Remarks :

- Temperature during testing - 27 ± 2° c.
- Ordinary Portland Cement conforms to the requirements of IS 269:2015 in all respects.
- Specific Gravity :- 3.14

Address:

JSW CEMENT LIMITED
 Village- Khar Karavi, Post Office- Gadab
 Taluka- Pen, District- Raigad, PIN-402107
 Maharashtra. +91 2143 277601/2



HOD-Quality Control