



JSW OPC Cement : 53 GRADE

THE LEADERS' CHOICE

TEST CERTIFICATE

Ordinary Portland Cement as per IS 269:2015

REF.: JSW/QA/2023

DATE : 30-07-2023

WEEK NO. : 29

16-07-2023 22-07-2023

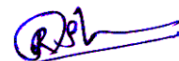
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 269:2015
(A) CHEMICAL COMPOSITION		
(i) Lime Saturation Factor	0.91	0.80 to 1.02
(ii) Alumina Modulus, Ratio	1.59	0.66 Minimum
(iii) Insoluble residue (IR) % by mass	0.40	5.0 Maximum
(iv) Magnesia (MgO) % by mass	2.46	6.0 Maximum
(v) Sulphuric Anhydride % by mass	2.43	3.5 Maximum
(vi) Loss on ignition (LOI), % by mass	2.08	4.0 Maximum
(vii) Chloride, % by mass	0.014	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 (%)	0.050	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.	39.75	27 MPa Minimum
(b) At 168 ± 2 Hrs.	46.71	37 MPa Minimum
(c) At 672 ± 4 Hrs.	RA	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:

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HOD-Quality Control