



JSW OPC Cement : 53 GRADE

START STRONG.GROW STRONGER.

TEST CERTIFICATE

Ordinary Portland Cement as per IS 269:2015

REF.: JSW/QA/2020 24

DATE : 15-07-2020

WEEK NO. : 24

10-06-2020 16-06-2020

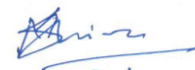
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 269:2015
(A) CHEMICAL COMPOSITION		
(i) Lime Saturation Factor	0.87	0.80 to 1.02
(ii) Alumina Modulus, % by mass	1.94	0.66 Minimum
(iii) Insoluble residue (IR) % by mass	0.41	5.0 Maximum
(iv) Magnesia (MgO) % by mass	2.80	6.0 Maximum
(v) Sulphuric Anhydrite % by mass	2.57	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) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface blaine (m ² /kg)	330	225 minimum
2. Soundness		
Le-Chatelier Expansion (mm)	1.00	10 Maximum
Autoclave Expansion (%)	0.059	0.8 Maximum
3. Setting Time		
Initial (in Minutes)	150	30 Minimum
Final (in Minutes)	190	600 Maximum
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hrs.	38.51	27 MPa Minimum
(b) At 168 ± 2 Hrs.	47.19	37 MPa Minimum
(c) At 672 ± 4 Hrs.	56.45	53 MPa Minimum

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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Associated General Manager