



CM/L-5710037013

**JSW CEMENT LTD  
SALBONI, WEST MIDNAPORE,  
WESTBENGAL**

**TEST CERTIFICATE FOR PORTLAND SLAG CEMENT**

S.No.	Characteristics	Requirement as Per IS 455:2015	Test Result
	<b>CHEMICAL REQUIREMENTS</b>	% Max.	
1	Magnesium Oxide (% MgO)	10.0	5.06
2	Sulphur Trioxide (% SO <sub>3</sub> )	3.5	1.45
3	Sulphide Sulphur (% S)	1.5	0.16
4	Loss On Ignition (%)	5.0	1.45
5	Insoluble Residue (%)	4.0	1.20
6	Chlorides (%)	0.1	0.005
	<b>PHYSICAL REQUIREMENTS</b>		
1	Fineness (M <sup>2</sup> /Kg)(Min)	225	380
2 a	Normal Consistency (%)		32.00
b	Setting Time (minutes)		
	a) Initial(Min)	30	165
	b) Final(Max)	600	265
3	Soundness		
	a) Le-chatelier (mm)(Max)	10	0.500
	b) Auto Clave (%) (Max)	0.8	0.025
4	Compressive Strength (MPa)		
	a) 72 ± 1h (3 days)(Min)	16	20.89
	b) 168 ± 2h(7 days)(Min)	22	28.55
	c) 672 ± 4h (28 days)(Min)	33	44.75

**Remarks:** Temperature during testing is 27+/-2degree centigrade.  
Specific Gravity: -2.96,

**WEEK NO: 31  
30.07.2023 – 05.08.2023**

**JSW CEMENT Ltd.**

*Authorized Signatory*