



ISO 9001, ISO 14001, ISO 50001 & OHSAS 18001  
Certified by IRQS

IS 455



CM/L-6957196

**JSW CEMENT LTD.,  
VIJAYANAGAR WORKS**

**IS: 455: 2015**

**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	5.70
2	Sulphur Trioxide (% SO <sub>3</sub> )	3.5	1.57
3	Sulphide Sulphur (% S)	1.5	0.18
4	Loss Of Ignition (%)	5.0	0.85
5	Insoluble Residue (%)	4.0	0.84
6	Chlorides (%)	0.1	0.004
7	Alkali Content (%) as Na <sub>2</sub> O	0.6	0.39
	<b>PHYSICAL REQUIREMENTS</b>		
1	Normal Consistency	NA	29.75
2	Fineness (M <sup>2</sup> /Kg)(Min)	225	335
3	Setting Time (minutes) a) Initial(Min) b) Final(Max)	30 600	130 245
4	Soundness a) Le-chatelier (mm)(Max) b) Auto Clave (%) (Max)	10 0.8	1.00 0.007
5	Compressive Strength (MPa) a) 72 ± 1h (3 days)(Min) b) 168 ± 2h(7 days)(Min) c) 672 ± 4h (28 days)(Min)	16 22 33	20.40 31.00 Awaited

Week No. 34

20.08.2023– 26.08.2023

  
Authorized signatory