



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
	CHEMICAL REQUIREMENTS	% Max.	
1	Magnesium Oxide (% MgO)	10.0	5.32
2	Sulphur Trioxide (% SO ₃)	3.5	1.76
3	Sulphide Sulphur (% S)	1.5	0.15
4	Loss Of Ignition (%)	5.0	0.89
5	Insoluble Residue (%)	4.0	0.83
6	Chlorides (%)	0.1	0.009
7	Alkali Content (%) as Na ₂ O	0.6	0.37
	PHYSICAL REQUIREMENTS		
1	Normal Consistency	NA	30.00
2	Fineness (M ² /Kg)(Min)	225	342
3	Setting Time (minutes) a) Initial(Min) b) Final(Max)	30 600	145 240
4	Soundness a) Le-chatelier (mm)(Max) b) Auto Clave (%) (Max)	10 0.8	1.00 0.040
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 30.20 47.90

Week No. 27

02.07.2023– 08.07.2023


Authorized signatory