



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	5.29
2	Sulphur Trioxide (% SO ₃)	3.5	1.78
3	Sulphide Sulphur (% S)	1.5	0.22
4	Loss Of Ignition (%)	5.0	0.83
5	Insoluble Residue (%)	4.0	0.85
6	Chlorides (%)	0.1	0.004
7	Alkali Content (%) as Na ₂ O	0.6	0.38
	PHYSICAL REQUIREMENTS		
1	Normal Consistency	NA	30.00
2	Fineness (M ² /Kg)(Min)	225	346
3	Setting Time (minutes)		
	a) Initial(Min)	30	155
	b) Final(Max)	600	250
4	Soundness		
	a) Le-chatelier (mm)(Max)	10	1.00
	b) Auto Clave (%) (Max)	0.8	0.058
5	Compressive Strength (MPa)		
	a) 72 ± 1h (3 days)(Min)	16	21.92
	b) 168 ± 2h(7 days)(Min)	22	33.47
	c) 672 ± 4h (28 days)(Min)	33	Awaited

Week No. 40

01.10.2023– 07.10.2023


Authorized signatory