Cement Limited		
IS:455	CONCREEL HE	
THE LEADERS' CHOICE		
CM/L:7235567		•
Dertifere		55.0045
Portiano	d Slag Cement as per IS 4	55:2015
REF.: JSW/QA/2023/A-01		DATE : <b>10-09-2023</b>
WEEK NO. : 32		06-08-2023 to 12-08-2023
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 455:2015
(A) CHEMICAL COMPOSITION		
(i) Magnesia (MgO), % by mass	4.73	10.0 Maximum
(ii) Insoluble Residue, % by mass	0.47	4.0 Maximum
(iii) Sulphuric Anhydride (SO <sub>3</sub> ) % by mass	2.12	3.5 Maximum
(iv) Sulphide Sulphur (S)	0.22	1.5 Maximum
(v) Loss on Ignition % by mass	1.22	5.0 Maximum
(vi) Total Chloride (Cl), % by mass	0.014	0.10 Maximum
(B) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface (m <sup>2</sup> /kg)	351	225 m <sup>2</sup> /kg minimum
2. Soundness	551	
Le-Chatelier Expansion (mm)	1.00	10 mm Maximum
Autoclave Expansion (%)	0.053	0.8 % Maximum
3. Setting Time	0.000	
Initial (in Minutes)	190	Not less than 30 minutes
Final (in Minutes)	240	Not more than 600 minutes
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hr.	29.75	16 MPa Minimum
(b) At 168 ± 2 Hrs.	39.05	22 MPa Minimum
(c) At $672 \pm 4$ Hrs.	52.13	33 MPa Minimum
5. Normal Consistency	31.00	
6. GGBS Addition (%)	45.00	25% MIN & 70% MAX
Remarks :	I I	
1. Temperature during testing - $27 \pm 2^{\circ}$ c.		
2. Portland Slag Cement conforms to the require	ement of IS 455:2015 in all resp	ects.
3. Specific Gravity :- 3.05		
Address:		
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Prepared By Officer -QC	Checked By SH -QC	Approved By HOD-QC