Cement Limited		
CONCREEL HD		
THE LEADERS' CHOICE		
TEST CERTIFICATE		
Portland Slag Cement as per IS 455:2015		
REF.: JSW/QA/2023/A-01		DATE : 29-10-2023
WEEK NO. : 39		24-09-2023 to 30-09-2023
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 455:2015
(A) CHEMICAL COMPOSITION		
(i) Magnesia (MgO), % by mass	4.68	10.0 Maximum
(ii) Insoluble Residue, % by mass	0.40	4.0 Maximum
(iii) Sulphuric Anhydride (SO ₃) % by mass	2.41	3.5 Maximum
(iv) Sulphide Sulphur (S)	0.24	1.5 Maximum
(v) Loss on Ignition % by mass	0.94	5.0 Maximum
(vi) Total Chloride (Cl), % by mass	0.015	0.10 Maximum
(B) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface (m²/kg)	351	225 m ² /kg minimum
2. Soundness		-
Le-Chatelier Expansion (mm)	1.00	10 mm Maximum
Autoclave Expansion (%)	0.052	0.8 % Maximum
3. Setting Time		
Initial (in Minutes)	190	Not less than 30 minutes
Final (in Minutes)	245	Not more than 600 minutes
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hr.	29.91	16 MPa Minimum
(b) At 168 ± 2 Hrs.	39.77	22 MPa Minimum
(c) At 672 ± 4 Hrs.	52.38	33 MPa Minimum
5. Normal Consistency	31.00	
6. GGBS Addition (%)	45.00	
	-0.00	25% MIN & 70% MAX
Remarks :		
1. Temperature during testing - $27 \pm 2^{\circ}$ c.		
2. Portland Slag Cement conforms to the requirement of IS 455:2015 in all respects.		
3. Specific Gravity :- 3.05		
JSW CEMENT LIMITED		
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AKS	25	Ret
Prepared By	Checked By	Approved By
Officer -QC	SH -QC	HOD-QC