Cement Limited					
CM/L:7235567 CM/L:7235567 CM/L:7235567 CM/L:7235567 CONCREEL HD START STRONG.GROW STRONGER. TEST CERTIFICATE					
			Portland Slag Cement as per IS 455:2015		
REF.: JSW/QA/2020 29 DATE : 19-08-2020		DATE: 19-08-2020			
WEEK NO. : 29		15-07-2020 21-07-2020			
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 455:2015			
(A) CHEMICAL COMPOSITION					
(i) Magnesia (MgO), % by mass	4.79	10.0 Maximum			
(ii) Insoluble Residue, % by mass	0.36	4.0 Maximum			
(iii) Sulphuric Anhydride (SO ₃) % by mass	2.57	3.5 Maximum			
(iv) Sulphide Sulphur (S)	0.28	1.5 Maximum			
(v) Loss on Ignition % by mass	1.90	5.0 Maximum			
(vi) Total Chloride (Cl), % by mass	0.018	0.10 Maximum			
(B) PHYSICAL TESTING					
1. Fineness of Cement					
Sp.Surface blaine (m ² /kg)	362	225 m²/kg minimum			
2. Soundness					
Le-Chatelier Expansion (mm)	1.00	10 mm Maximum			
Autoclave Expansion (%)	0.059	0.8 % Maximum			
3. Setting Time					
Initial (in Minutes)	170	Not less than 30 minutes			
Final (in Minutes)	215	Not more than 600 minutes			
4. Compressive Strength (MPa)					
(a) At 72 ± 1 Hrs.	35.05	16 MPa Minimum			
(b) At 168 ± 2 Hrs.	44.77	22 MPa Minimum			
(c) At 672 ± 4 Hrs.	55.68	33 MPa Minimum			
Remarks :	<u> </u>				

1. Temperature during testing - $27 \pm 2^{\circ}$ c.

2. Portland Slag Cement conforms to the requirement of IS 455-2015 in all respects.

Address:

JSW CEMENT LIMITED

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Associated General Manager