

**HEIDELBERGCEMENT INDIA LTD, AMMASANDRA
TEST REPORT FOR MYCEM**

REF.: HCIL/QA/2021/1

DATE : 08.02.2021

HCIL(AMS)-QCD-F026

WEEK NO. : 1

1/1/2021 to 1/7/2021

CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS455:2015
(A) CHEMICAL COMPOSITION		
(i) Magnesia (MgO), % by mass	5.05	10.0 Maximum
(ii) Insoluble Residue, % by mass	0.90	4.0 Maximum
(iii) Sulphuric Anhydride (SO ₃) % by mass	2.38	3.5 Maximum
(iv) Sulphide Sulphur (S)	0.32	1.5 Maximum
(v) Loss on Ignition % by mass	2.04	5.0 Maximum
(vi) Total Chloride (Cl), % by mass	0.044	0.10 Maximum
(B) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface blaine (m ² /Kg)	365	225 m ² /kg minimum
2. Soundness		
Le-Chatelier Expansion (mm)	1.0	10 mm Maximum
Autoclave Expansion (%)	0.14	0.8 % Maximum
3. Setting Time		
Initial (in Minutes)	125	Not less than 30 minutes
Final (in Minutes)	220	Not more than 600 minutes
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hrs.	22.9	16 MPa Minimum
(b) At 168 ± 2 Hrs.	33.3	22 MPa Minimum
(c) At 672 ± 4 Hrs.	53.3	33 MPa Minimum

Remarks :

- Physical Lab Temperature during testing - 27 ± 2° C
- Portland Slag Cement conforms to the requirement of **IS 455:2015** in all respects.



Mgr (QC)