

HEIDELBERGCEMENT INDIA LTD, AMMASANDRA TEST REPORT FOR MYCEM

REF.: HCIL/QA/2015/34

DATE : 26.09.2015

WEEK NO. : 34

HCIL(AMS)-QCD-F026
20-08-2015 to 26-08-2015

| CHARACTERISTIC | RESULTS OBTAINED | REQUIREMENT OF IS455:1989 |
|--|------------------|--------------------------------|
| (A) CHEMICAL COMPOSITION | | |
| (i) Magnesia (MgO), % by mass | 8.48 | 10.0 Maximum |
| (ii) Insoluble Residue, % by mass | 1.50 | 4.0 Maximum |
| (iii) Sulphuric Anhydride (SO ₃) % by mass | 2.40 | 3.0 Maximum |
| (iv) Sulphide Sulphur (S) | 0.32 | 1.5 Maximum |
| (v) Loss on Ignition % by mass | 1.86 | 5.0 Maximum |
| (vi) Total Chloride (Cl), % by mass | 0.04 | 0.10 Maximum |
| (B) PHYSICAL TESTING | | |
| 1. Fineness of Cement | | |
| Sp.Surface blaine (m ² /Kg) | 352 | 225 m ² /kg minimum |
| 2. Soundness | | |
| Le-Chatelier Expansion (mm) | 3.0 | 10 mm Maximum |
| Autoclave Expansion (%) | 0.26 | 0.8 % Maximum |
| 3. Setting Time | | |
| Initial (in Minutes) | 85 | Not less than 30 minutes |
| Final (in Minutes) | 190 | Not more than 600 minutes |
| 4. Compressive Strength (MPa) | | |
| (a) At 72 ± 1 Hrs. | 23.2 | 16 MPa Minimum |
| (b) At 168 ± 2 Hrs. | 33 | 22 MPa Minimum |
| (c) At 672 ± 4 Hrs. | 50.2 | 33 MPa Minimum |

Remarks :

- Physical Lab Temperature during testing - 27 ± 2° C
- Portland Slag Cement conforms to the requirement of IS 455-1989 in all respects.


Mgr (QC)