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HCIL(NGH)-QCD-F026

DIAMOND CEMENTS (Prop. HEIDELBERGCEMENT INDIA LTD)
DAMOH UNIT

TEST REPORT FOR MYCEM

Portland Pozzolana Cement as per IS1489 (Part I):1991

REF.: DC/DMH/QA/2016/40 DATE : 12.11.2016

WEEK NO. : 40 **(30.09.16 - 06.10.16)**

CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS1489 (Part 1):1991
(A) CHEMICAL COMPOSITION		
(i) Loss on Ignition % by mass	2.56	5.0, Max.
(ii) Magnesia (MgO), % by mass	2.64	6.0, Max.
(iii) Sulphuric Anhydride (SO_3) % by mass	2.36	3.0, Max.
(iv) Total Chloride (Cl), % by mass	0.010	0.1, Max.
(v) Insoluble Material, % by mass	33.55	X + 4.0 x(100-X)/100 Where X is the declared % of Fly Ash in the PPC sample
(B) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface blaine (m^2/kg)	375	300 m^2/kg minimum
2. Soundness		
Le-Chatelier Expansion (mm)	0.5	10 mm, Max.
Autoclave Expansion (%)	0.018	0.8 %, Max.
3. Setting Time		
Initial (in Minutes)	170	30 minutes, Min.
Final (in Minutes)	220	600 minutes, Max.
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hrs.	28	16 MPa, Min.
(b) At 168 ± 2 Hrs.	34	22 MPa, Min.
(c) At 672 ± 4 Hrs.	51	33 MPa, Min.
5. Drying Shrinkage (%)	0.042	0.15 %, Max.
6. Declared % of Fly Ash in PPC	34.96	15 - 35 %

Remarks :

1. Temperature during testing - 27 ± 2° c.
2. The amount of Fly Ash in the finished cement is not varying more than ± 3% from the declared value.
3. Portland Pozzolana Cement conforms to the requirement of IS 1489 (Part 1):1991 in all respects.

Head of Quality Control - Damoh