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DIAMOND CEMENTS,(Prop. HEIDELBERGCEMENT INDIA LTD)
MADORA,JHANSI UNIT
TEST REPORT FOR MYCEM

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

REF.: DC/JHN/QA/2015/16

DATE : 29.05.2015

WEEK NO. : 16

(16.04.15 - 22.04.15)

CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS1489 (Part 1):1991
(A) CHEMICAL COMPOSITION		
(i) Loss on Ignition % by mass	2.13	5.0, Max.
(ii) Magnesia (MgO), % by mass	2.53	6.0, Max.
(iii) Sulphuric Anhydride (SO ₃) % by mass	2.11	3.0, Max.
(iv) Total Chloride (Cl), % by mass	0.009	0.1, Max.
(v) Insoluble Material, % by mass	33.73	$X + 4.0 \times (100 - X) / 100$ 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)	354	300 m ² /kg minimum
2. Soundness		
Le-Chatelier Expansion (mm)	1.0	10 mm, Max.
Autoclave Expansion (%)	0.083	0.8 %, Max.
3. Setting Time		
Initial (in Minutes)	175	30 minutes, Min.
Final (in Minutes)	220	600 minutes, Max.
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hrs.	23	16 MPa, Min.
(b) At 168 ± 2 Hrs.	33	22 MPa, Min.
(c) At 672 ± 4 Hrs.	46	33 MPa, Min.
5. Drying Shrinkage (%)	0.032	0.15 %, Max.
6. Declared % of Fly Ash in PPC	34.94	15 - 35 %

Remarks :

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


Vice President