1489 (Part-1): 2015





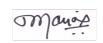
## WORK TEST CERTIFICATE



## **Portland Pozzolana Cement** 23-Apr-2022 From Despatched during Week No. 17 29-Apr-2022 То Test Certificate No. 17 WCW/IMS/QA/FM/18 Reference No. Dated 7-May-2022 Results S.N. Parameters Requirement as per IS 1489 (Part I) : 2015 Obtained **Chemical Composition** Loss on Ignition (% by mass) 2.22 Not More than 5.0 % Magnesia (% by mass) 0.87 Not more than 6.0 % Sulphuric Anhydride SO3 (% by mass) 2.16 Not More than 3.5 % 1 Not more than 0.1 % for general purpose & not Chloride Content (% by mass) 0.01 more than 0.05 % for pre-stressed structures Not More than [X + 4.0 (100-X) / 100] & Not less than (0.6 X), Where "X" is the declared Insoluble Residue (% by mass) 25.04 Pozzolana content in cement **Physical Analysis** Fineness 2 Blaine's Specific Surface Area (m2 / kg) 338 Not Less than 300 **Compressive Strength (MPa)** 27.0 72 ± 1h (3 Days) Not less than 16.0 3 168 ± 2h (7 Days) 35.3 Not less than 22.0 672 ± 4h (28 Days) \* Awaited Not less than 33.0 Setting Time (Minutes) 4 Initial 160 Not less than 30 Final 235 Not more than 600 Soundness 5 Le-Chatelier Expansion (mm) 1.00 Not more than 10.0 Auto-Clave Expansion (%) 0.040 Not more than 0.8 6 Drying Shrinkage (%)\* Awaited Not more than 0.15 Normal Consistency (%) 31.25 7 27.00 Temp. During Testing (0C) (27 ± 2)0C

\* Fly Ash Content in Cement is (%)

The above cement complies with the requirements of IS 1489 (Part I): 2015 for Portland Pozzolana Cement.



34.00

Manager (QA)

DGM QC

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