1489 (Part-1): 2015





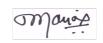
## WORK TEST CERTIFICATE



## **Portland Pozzolana Cement** 5-Mar-2022 From Despatched during Week No. 10 То 11-Mar-2022 Test Certificate No. 10 WCW/IMS/QA/FM/18 Reference No. Dated 19-Mar-2022 Results S.N. **Parameters** Requirement as per IS 1489 (Part I) : 2015 Obtained **Chemical Composition** Loss on Ignition (% by mass) 2.26 Not More than 5.0 % Magnesia (% by mass) 0.89 Not more than 6.0 % Sulphuric Anhydride SO3 (% by mass) 2.01 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) 23.91 Pozzolana content in cement **Physical Analysis** Fineness 2 Blaine's Specific Surface Area (m2 / kg) 336 Not Less than 300 **Compressive Strength (MPa)** 27.9 72 ± 1h (3 Days) Not less than 16.0 3 168 ± 2h (7 Days) 39.3 Not less than 22.0 672 ± 4h (28 Days) \* Awaited Not less than 33.0 Setting Time (Minutes) 4 Initial 170 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 (%) 30.50 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

Registered Office: Cement House, 121, Maharishi Karve Road, Mumbai - 400020