IS 1489 (Part-1): 2015





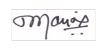


## WORK TEST CERTIFICATE

## **Portland Pozzolana Cement** Despatched during Week No. 6 From 5-Feb-2022 11-Feb-2022 То Test Certificate No. 6 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) 2.32 Not More than 5.0 % Not more than 6.0 % Magnesia (% by mass) 0.84 Sulphuric Anhydride SO3 (% by mass) 2.02 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) 22.74 Pozzolana content in cement **Physical Analysis** Fineness 2 Blaine's Specific Surface Area (m2 / kg) 336 Not Less than 300 **Compressive Strength (MPa)** Not less than 16.0 72 ± 1h (3 Days) 27.9 3 168 ± 2h (7 Days) 38.1 Not less than 22.0 672 ± 4h (28 Days) \* 56.1 Not less than 33.0 Setting Time (Minutes) 180 4 Initial Not less than 30 Final 255 Not more than 600 Soundness 5 Le-Chatelier Expansion (mm) 1.00 Not more than 10.0 0.040 Auto-Clave Expansion (%) Not more than 0.8 Drying Shrinkage (%)\* 0.04 Not more than 0.15 6 Normal Consistency (%) 30.50 7 Temp. During Testing (0C) 27.00 (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.



Manager (QA)

DGM QC

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34.00