

IS 1489 (Part-1): 2015



CM/L 1209132

ACC

ACC Limited
Wadi Cement Works

WORK TEST CERTIFICATE

IS / ISO 9001



Portland Pozzolana Cement

| Despatched during Week No. | 2 | From | 8-Jan-2021 | To | 14-Jan-2021 |
|----------------------------|--|------------------|---|------------------|-------------|
| Test Certificate No. | 2 | Reference No. | | WCW/IMS/QA/FM/09 | |
| Dated | 12-Feb-2021 | | | | |
| S.N. | Parameters | Results Obtained | Requirement as per IS 1489 (Part I) : 2015 | | |
| 1 | Chemical Composition | | | | |
| | Loss on Ignition (% by mass) | 1.60 | Not More than 5.0 % | | |
| | Magnesia (% by mass) | 0.82 | Not more than 6.0 % | | |
| | Sulphuric Anhydride SO ₃ (% by mass) | 2.00 | Not More than 3.5 % | | |
| | Chloride Content (% by mass) | 0.01 | Not more than 0.1 % for general purpose & not more than 0.05 % for pre-stressed structures | | |
| | Insoluble Residue (% by mass) | 28.20 | Not More than $[X + 4.0 (100-X) / 100]$ & Not less than $(0.6 X)$, Where "X" is the declared Pozzolana content in cement | | |
| Physical Analysis | | | | | |
| 2 | Fineness | | | | |
| | Blaine's Specific Surface Area (m ² / kg) | 335 | Not Less than 300 | | |
| 3 | Compressive Strength (MPa) | | | | |
| | 72 ± 1h (3 Days) | 28.0 | Not less than 16.0 | | |
| | 168 ± 2h (7 Days) | 37.2 | Not less than 22.0 | | |
| | 672 ± 4h (28 Days) * | 53.4 | Not less than 33.0 | | |
| 4 | Setting Time (Minutes) | | | | |
| | Initial | 170 | Not less than 30 | | |
| | Final | 270 | Not more than 600 | | |
| 5 | Soundness | | | | |
| | 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 | | |
| 7 | Normal Consistency (%) | 29.00 | | | |
| | Temp. During Testing (0C) | 27.00 | (27 ± 2)0C | | |

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| * Fly Ash Content in Cement is (%) | 34.00 |
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The above cement complies with the requirements of IS 1489 (Part I): 2015 for Portland Pozzolana Cement.

Manager (QA)

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