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**KALBURGI CEMENT PVT. LTD.**

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IS:269



CM/L :4578077

**TEST CERTIFICATE (OPC - 53 Grade)****Product : VICAT - OPTIMATE****Week No: 15****Despatched from: 09.04.2021 to 15.04.2021**

| A. PHYSICAL REQUIREMENTS                 | RESULTS | As per IS 269 – 2015 |
|------------------------------------------|---------|----------------------|
| <b>Fineness:</b>                         |         |                      |
| a. Specific Surface (m <sup>2</sup> /kg) | 298     | Not less than 225    |
| b. Normal Consistency (%)                | 30.50   | -----                |
| <b>Soundness:</b>                        |         |                      |
| a. By Le-Chatelier Method (mm)           | 1.25    | Not more than 10 mm  |
| b. By Autoclave (%)                      | 0.046   | Not more than 0.8 %  |
| <b>Setting Time:</b>                     |         |                      |
| a. Initial Setting Time (minutes)        | 145     | Not less than 30     |
| b. Final Setting Time (minutes)          | 240     | Not more than 600    |
| <b>Compressive Strength (MPa)</b>        |         |                      |
| a. 3 days                                | 36.80   | Not less than 27     |
| b. 7 days                                | 46.00   | Not less than 37     |
| c. 28 days                               | 59.50   | Not less than 53     |
| <b>B. CHEMICAL REQUIREMENTS</b>          |         |                      |
| a. Lime Saturation Factor                | 0.91    | 0.80 – 1.02          |
| b. Aluminum Modules                      | 1.08    | Not less than 0.66   |
| c. Insoluble Residue (%)                 | 2.53    | Not more than 5.0    |
| d. Magnesia (%)                          | 0.97    | Not more than 6.0    |
| e. Sulphuric Anhydride (%)               | 2.43    | Not more than 3.5    |
| f. Loss on Ignition (%)                  | 2.54    | Not more than 4.0    |
| g. Chlorides (%)                         | 0.010   | Not more than 0.1    |
| h. Alkali Content (%)                    | 0.48    | Not more than 0.6    |
| i. Temperature During Testing °C         | 28.50   | 27 ± 2               |

**Section In-Charge (Q.C)****Authorised Signature**