



| <b>REPORT NO. 7845487889</b>      |   | <b>ULR NO. 45212451</b>  |  |
|-----------------------------------|---|--|--|
| <b>Issued To</b>                  | : | <b>How are you</b>   | <b>Date of Receipt</b> : 12-11-2025                |
| <b>Letter REF. NO. &amp; Date</b> | : | <b>451454247845 &amp; 2025-11-18</b><br><b>Agence: How are you</b> | <b>Date of start of analysis</b> : 26-11-2025      |
| <b>Sample Description</b>         | : | <b>Hih</b>   | <b>Date of completion of analysis</b> : 25-11-2025 |
| <b>Name of work</b>               | : | <b>Avinash Kumar Jha</b>   | <b>Date of issue</b> : 20-11-2025                  |

### **TEST RESULTS**

| S.No.   | Tests  | Test Methods       | Requirements as per IS 269:2015 With Amendment No. 1 | Results | Conformity |
|---|--|--------------------|--|---------|------------|
| <b>Discipline : Mechanical, Group : Buildings Materials</b> |  |                    |  |         |            |
| <b>Physical Requirements</b>                                |  |                    |  |         |            |
| 1.  | Consistency, %                                     | IS 4031(P-4):1988  | -  |         |            |
| 2.  | Density, g/cc                                      | IS 4031(P-11):1988 | -  |         |            |
| 3.  | Fineness, m <sup>2</sup> / kg                      | IS 4031(P-2):1999  | 225 Min.   |         |            |
| 4.  | Initial Setting Time, Minutes                      | IS 4031(P-5):1988  | 30 Min.  |         |            |
| 5.  | Final Setting Time, Minutes                        | IS 4031(P-5):1988  | 600 Max.   |         |            |
| 6.  | Soundness By Le-Chatelier Method, mm               | IS 4031(P-3):1988  | 10 Max.  |         |            |
| 7.  | Soundness By Autoclave Test Method, %              | IS 4031(P-3):1988  | 0.8 Max.   |         |            |
| 8.  | Compressive Strength at 3 Days (72±1 Hours), MPa   | IS:4031(P-6):1988  | 23 Min.  |         |            |
| 9.  | Compressive Strength at 7 Days (168±2 Hours), MPa  | IS 4031(P-6):1988  | 33 Min.  |         |            |
| 10.   | Compressive Strength at 28 Days (672±4 Hours), MPa | IS 4031(P-6):1988  | 43 - 58  |         |            |
| <b>Discipline : Chemical, Group : Building Material</b>     |  |                    |  |         |            |
| <b>Chemical Requirements</b>                                |  |                    |  |         |            |



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| Avinash Kumar Jha      |   |                                |              |

|    |   |              |  |  |  |
|----|---|--------------|--|--|--|
| 1. | Ratio of % of lime to % of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> & Fe <sub>2</sub> O <sub>3</sub> as per formula<br>$\frac{CaO}{2.8SiO_2 + 1.2Al_2O_3 + 0.65Fe_2O_3} - 0.7SO_3$ | IS 4032:1985 | 0.66 -1.02   |  |  |
| 2. | Ratio of % of Alumina to that of Iron oxide   | IS 4032:1985 | 0.66 Min.  |  |  |
| 3. | Insoluble Residue, % by mass  | IS 4032:1985 | 5.0 Max.   |  |  |
| 4. | Magnesia as MgO, % by mass  | IS 4032:1985 | 6.0 Max.   |  |  |
| 5. | Total Sulphur Content Calculated as Sulphuric Anhydride (SO <sub>3</sub> ), % by mass   | IS 4032:1985 | 3.5 Max.   |  |  |
| 6. | Loss on Ignition. % by mass   | IS 4032:1985 | 5.0 Max.   |  |  |
| 7. | Chloride Content, % by mass   | IS 4032:1985 | 0.1 Max.<br>0.05 Max. (For Prestressed Structures) |  |  |
| 8. | Alkali Content expressed as Sodium Oxide (Na <sub>2</sub> O+0.658 K <sub>2</sub> O), % by mass  | IS 4032:1985 | 0.6 Max.   |  |  |

Analyst