



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

TEST RESULTS

| S.No. | Tests | Test Methods | Requirements as per IS 269:2015 With Amendment No. 1 | Results | Conformity |
|---|--|--------------------|--|---------|------------|
| Discipline : Mechanical, Group : Buildings Materials | | | | | |
| Physical Requirements | | | | | |
| 1. | Consistency, % | IS 4031(P-4):1988 | - | | |
| 2. | Density, g/cc | IS 4031(P-11):1988 | - | | |
| 3. | Fineness, m ² / 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 | | |
| Discipline : Chemical, Group : Building Material | | | | | |
| Chemical Requirements | | | | | |



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| | | | | | |
|----|--|--------------|--|--|--|
| 1. | Ratio of % of lime to % of SiO ₂ , Al ₂ O ₃ & Fe ₂ O ₃ as per formula ($\frac{\text{CaO}}{2.8\text{SiO}_2 + 1.2\text{Al}_2\text{O}_3 + 0.65\text{Fe}_2\text{O}_3} - 0.7\text{SO}_3$) | 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 ₃), % 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. 0.05 Max. (For Prestressed Structures) | | |
| 8. | Alkali Content expressed as Sodium Oxide (Na ₂ O+0.658 K ₂ O), % by mass | IS 4032:1985 | 0.6 Max. | | |

Analyst