







53 Grade Ordinary Portland Cement Despatched during Week No. 30-Apr-2022 18 From То 6-May-2022 Test Certificate No. 18 WCW/IMS/QA/FM/17 Reference No. Dated 14-May-2022 Requirement as per IS 269 : 2015 Results S.N. Parameters (Variety: OPC 53) Obtained **Chemical Composition** Lime Saturation Factor 0.91 Not greater than 1.02 and not less than 0.80 (CaO-0.7 *SO3) / (2.8* SiO2 + 1.2* Al2O3 + 0.65* Fe2O3) Ratio of % Alumina to that of Iron Oxide 1.23 Not less than 0.66 Al2O3 / Fe2O3 Insoluble Residue (% by mass) 1.06 Not more than 5.0 % 1 Magnesia (% by mass) 0.88 Not more than 6.0 % Sulphuric Anhydride (% by mass) 2.94 Not More than 3.5 % Total loss on Ignition (%) 2.07 Not More than 4.0 % Not more than 0.1 % for general purpose & not 0.010 Chloride Content (%) more than 0.05 % for pre-stressed structures **Physical Analysis** Fineness 2 Blaine's Specific Surface Area (m2 / kg) 310 Not Less than 225 **Compressive Strength (MPa)** 72 ± 1h (3 Days) 36.5 Not less than 27.0 3 Not less than 37.0 168 ± 2h (7 Days) 46.0 672 ± 4h (28 Days) * Awaited Not less than 53.0 Setting Time (Minutes) Initial 120 Not less than 30 4 Final 175 Not more than 600 Soundness 5 Le-Chatelier Expansion (mm) 2.00 Not more than 10.0 Auto-Clave Expansion (%) 0.070 Not more than 0.8 Normal Consistency (%) 28.50

The above cement complies with the requirements of IS 269 : 2015 (Variety: OPC 53) for 53 Grade Ordinary Portland Cement

27.00

(27 ± 2)0C

Manager (QA)

Temp. During Testing (0C)

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DGM QC

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