





WORK TEST CERTIFICATE

53 Grade Ordinary Portland Cement

Despatched during Week No.		21	From	21-May	/-2022	То	27-May-2022
Test Certificate No.		21	Deference	- N-		MCM	JUNE IO A IENAIA Z
Dated		25-Jun-2022 Referenc		e No.		WCW/IMS/QA/FM/17	
S.N.	Parameters		Results Obtained	Requirement as per IS 269 : 2015 (Variety: OPC 53)			
1	Chemical Composition						
	Lime Saturation Factor (CaO – 0.7 *SO3) / (2.8* SiO2 + 1.2* Al2O3 + 0.65* Fe2O3)			0.90	Not greater than 1.02 and not less than 0.80		
	Ratio of % Alumina to that of Iron Oxide Al2O3 / Fe2O3			1.24	Not less than 0.66		
	Insoluble Residue (% by mass)			0.95	Not more than 5.0 %		
	Magnesia (% by mass)			0.87	Not more than 6.0 %		
	Sulphuric Anhydride (% by mass)			2.90	Not More than 3.5 %		
	Total loss on Ignition (%)			1.98	Not More than 4.0 %		
	Chloride Content (%)			0.010	Not more than 0.1 % for general purpose & not more than 0.05 % for pre-stressed structures		
	Physical Analysis			•	•		
2	Fineness						
	Blaine's Specific Surface Area (m2 / kg)			304	Not Less than 225		
3	Compressive Strength (MPa)						
	72 ± 1h (3 Days)			37.0	Not less than 27.0		
	168 ± 2h (7 Days)			47.3	Not less than 37.0		
	672 ± 4h (28 Days) *			58.6	Not less than 53.0		
4	Setting Time (Minutes)						
	Initial			120	Not less than 30		
	Final			185	Not more than 600		
5	Soundness						
	Le-Chatelier Expansion (mm)			1.00	Not more than 10.0		
	Auto-Clave Expansion (%)			0.070	Not more than 0.8		
-	Normal Consistency (%)			27.75			
6	Temp. During Testing (0C)			27.00	(27 ± 2)0C		

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



Manager (QA)

Monos

DGM QC