



WORK TEST CERTIFICATE



53 Grade Ordinary Portland Cement

Despatched during Week No. Test Certificate No. Dated		13	From	26-Mar-2022		То	1-Apr-2022	
		13 30-Apr-2022	Reference			WCW/IMS/QA/FM/17		
S.N.	Pa	rameters	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)			0.91	Not greater than 1.02 and not less than 0.80			
	Ratio of % Alumina to that of Iron Oxide Al2O3 / Fe2O3			1.25	Not less than 0.66			
	Insoluble Residue (% by mass)			0.91	Not more than 5.0 %			
	Magnesia (% by mass)			0.90	Not more th	Not more than 6.0 %		
	Sulphuric Anhydride (% by mass)			2.95	Not More th	Not More than 3.5 %		
	Total loss on Ignition (%)			1.93	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)			308	Not Less than 225			
3	Compressive Strength (MPa)							
	72 ± 1h (3 Days)			36.5	Not less than 27.0			
	168 ± 2h (7 Days)			46.6	Not less than 37.0			
	672 ± 4h (28 Days) *			59.5	Not less than 53.0			
4	Setting Time (Minutes)							
	Initial			120	Not less than 30			
	Final			175	Not more than 600			
5	Soundness							
	Le-Chatelier Expansio	-Chatelier Expansion (mm)			Not more than 10.0			
	Auto-Clave Expansion	ve Expansion (%)			Not more than 0.8			
6	Normal Consistency (%	Consistency (%)						
	Temp. During Testing (During Testing (0C)			(27 ± 2)0C			

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

O DΔ DGM QC

Manager (QA)

Registered Office: Cement House, 121, Maharishi Karve Road, Mumbai - 400020