



WORK TEST CERTIFICATE



53 Grade Ordinary Portland Cement

Despatched during Week No.		30	From	23-Ju	I-2019	То	29-Jul-2019	
Test Certificate No.		30	Deferre			WOV		
Dated		8/6/2019	Reference	e No.	≱ No.		WCW/IMS/QA/FM/08	
S.N.	Pa	rameters		Results Obtained				
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			1.26	Not less than 0.66			
	Insoluble Residue (% by mass)			0.50	Not more than 5.0 %			
	Magnesia (% by mass)			0.97	Not more than 6.0 %			
	Sulphuric Anhydride (% by mass)			3.00	Not More than 3.5 %			
	Total loss on Ignition (%)			1.60	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)			300	Not Less than 225			
3	Compressive Strength (MPa)							
	72 ± 1h (3 Days)			37.0	Not less than 27.0			
	168 ± 2h (7 Days)			47.1	Not less than 37.0			
	672 ± 4h (28 Days) *			Awaited	Not less than 53.0			
4	Setting Time (Minutes)							
	Initial			130	Not less than 30			
	Final			190	Not more than 600			
5	Soundness							
	Le-Chatelier Expansion (mm)			1.00	Not more than 10.0			
	Auto-Clave Expansion (%)			0.060	Not more than 0.8			
6	Normal Consistency (%	rmal Consistency (%)						
	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

My

Manager (QA)