



WORK TEST CERTIFICATE



53 Grade Ordinary Portland Cement

Despatched during Week No.		37	From	10-Sep-2019		То	16-Sep-2019
Test Certificate No. Dated		37 9/24/2019	Reference No.		1	WCW/IMS/QA/FM/08	
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)			0.90	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)			0.50	Not more than 5.0 %		
	Magnesia (% by mass)			0.90	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)			302	Not Less than 225		
3	Compressive Strength (MPa)						
	72 ± 1h (3 Days)			37.6	Not less than 27.0		
	168 ± 2h (7 Days)			46.3	Not less than 37.0		
	672 ± 4h (28 Days) *			Awaited	Not less than 53.0		
4	Setting Time (Minute	s)					
	Initial			140	Not less than 30		
	Final			200	Not more than 600		
5	Soundness						
	Le-Chatelier Expansio	-Chatelier Expansion (mm)			Not more than 10.0		
	Auto-Clave Expansion	(%)	0.060	Not more than 0.8			
6	Normal Consistency (%	%)	27.50				
	Temp. During Testing	Juring 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

Manager (QA)

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