





53 Grade Ordinary Portland Cement

Despatched during Week No.		8	From	19/02/19		То	25/02/19	
Test Certificate No. Dated		8 26/03/19	Reference No.		WCW/IMS/QA/FM/08			
S.N.	Pa	rameters		ResultsRequirement as per IS 269 : 2015Obtained(Variety: OPC 53)				
1	Chemical Composition							
	Lime Saturation Factor ($CaO - 0.7 *SO_{3}$) / (2.8* $SiO_2 + 1.2* Al_2O_3 + 0.65* Fe_2O_3$)			0.90	Not greater than 1.02 and not less than 0.80			
	Ratio of % Alumina to that of Iron Oxide AI_2O_3 / Fe_2O_3			1.28	Not less than 0.66			
	Insoluble Residue (% by mass)			0.40	Not more than 5.0 %			
	Magnesia (% by mass)			1.00	Not more than 6.0 %			
	Sulphuric Anhydride (% by mass)			2.90	Not More than 3.5 %			
	Total loss on Ignition (%)			1.70	Not More than 4.0 %			
	Chloride Content (%)			0.013	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 (m ² / kg)			303	Not Less than 225			
3	Compressive Strength (MPa)							
	72 ± 1h (3 Days)			37.2	Not less than 27.0			
	168 ± 2h (7 Days)			47.2	Not less than 37.0			
	672 ± 4h (28 Days) *			60.4	Not less than 53.0			
4	Setting Time (Minutes)							
	Initial			135	Not less the	t less than 30		
	Final	.1			Not more than 600			
5	Soundness							
	Le-Chatelier Expansion	telier Expansion (mm)			Not more than 10.0			
	Auto-Clave Expansion	(%)	0.070	Not more than 0.8				
6	Normal Consistency (%)	27.25					
	Temp. During Testing (During Testing (⁰ C)			(27 ± 2) ⁰ C			

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

Const to

Manager (QA)

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