





53 Grade Ordinary Portland Cement

Despatched during Week No.		39	From	24-09-2018		То	30-09-2018	
Test Certificate No. Dated		39 29-10-2018	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* $SiO_2 + 1.2* Al_2O_3 + 0.65* Fe_2O_3$)			0.88	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			1.22	Not less than 0.66			
	Insoluble Residue (% by mass)			0.60	Not more than 5.0 %			
	Magnesia (% by mass)			0.94	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 (m ² / kg)			300	Not Less than 225			
3	Compressive Strength (MPa)							
	72 ± 1h (3 Days)			37.5	Not less than 27.0			
	168 ± 2h (7 Days)			46.8	Not less than 37.0			
	672 ± 4h (28 Days) *			60.4	Not less than 53.0			
4	Setting Time (Minutes)							
	Initial			130	Not less the	lot 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	to-Clave Expansion (%)			Not more than 0.8			
6	Normal Consistency (%	ormal Consistency (%)						
	Temp. During Testing (⁰ C)			27.00	(27 ± 2) ⁰ C			

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

Creat the

Manager (QA)

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