





53 Grade Ordinary Portland Cement

Despatched during Week No.		15	From	09/04/19		То	15/04/19	
Test Certificate No. Dated		15 Refere		ce No		WCW/IMS/QA/FM/08		
		14/05/19			T			
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 ₂ O ₃ + 0.65* Fe ₂ O ₃)			0.91	Not greater than 1.02 and not less than 0.80			
	Ratio of % Alumina to that of Iron Oxide Al_2O_3 / Fe ₂ O ₃			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 (%)			1.70	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)			301	Not Less than 225			
3	Compressive Strength (MPa)							
	72 ± 1h (3 Days)			38.5	Not less than 27.0			
	168 ± 2h (7 Days)			48.8	Not less than 37.0			
	672 ± 4h (28 Days) *			61.9	Not less than 53.0			
4	Setting Time (Minutes)							
	Initial			125	Not less the	Not less than 30		
	ïnal			195	Not more than 600			
5	Soundness							
	Le-Chatelier Expansion	atelier 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 (⁰ C)			27.00	$(27 \pm 2)^{0}$ 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