





53 Grade Ordinary Portland Cement

Despatched during Week No.		36	From	03/09/18		То	09/09/18	
Test Certificate No. Dated		36	36 Reference		e No		WCW/IMS/QA/FM/08	
		17/09/18		5 NO.		WCW/IMG/QA/I W/00		
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)			0.89	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 (%)			1.70	Not More than 4.0 %			
	Chloride Content (%)			0.018	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)			307	Not Less than 225			
3	Compressive Strength (MPa)							
	72 ± 1h (3 Days)			37.9	Not less than 27.0			
	168 ± 2h (7 Days)			47.7	Not less than 37.0			
	672 ± 4h (28 Days) *			Awaited	Not less than 53.0			
4	Setting Time (Minutes)						
	Initial			125	Not less the	ot 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 (lave Expansion (%)			Not more than 0.8			
6	Normal Consistency (%)	27.50					
	Temp. During Testing (Temp. During Testing (⁰ C)			$(27 \pm 2)^{0}$ C			

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

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Manager (QA)

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