





53 Grade Ordinary Portland Cement

Despatched during Week No.		21	From	21/05/19		То	27/05/19	
Test Certificate No. Dated		21	Deferre	rence No.		WCW/IMS/QA/FM/08		
		25/06/19	Referenc					
S.N.	Pa	rameters		ResultsRequirement as per IS 269 : 2015Obtained(Variety: OPC 53)				
(Chemical Composition							
	Lime Saturation Factor ($CaO - 0.7 *SO_{3}$ / (2.8* $SiO_2 + 1.2* Al_2O_3 + 0.65* Fe_2O_3$)			0.91	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			1.32	Not less than 0.66			
1	Insoluble Residue (% by mass)			0.80	Not more than 5.0 %			
1	Magnesia (% by mass)			0.90	Not more than 6.0 %			
ę	Sulphuric Anhydride (% by mass)			3.10	Not More than 3.5 %			
1	Total loss on Ignition (%)			1.80	Not More than 4.0 %			
(Chloride Content (%)			0.015	Not more than 0.1 % for general purpose & not more than 0.05 % for pre-stressed structures			
Í	Physical Analysis			*				
2	Fineness							
É	Blaine's Specific Surface Area (m ² / kg)			302	Not Less than 225			
C	Compressive Strength (MPa)							
3	72 ± 1h (3 Days)			38.2	Not less than 27.0			
1	168 ± 2h (7 Days)			47.8	Not less than 37.0			
6	672 ± 4h (28 Days) *			60.4	Not less than 53.0			
\$	Setting Time (Minutes)							
4 I	Initial			135	Not less the	Not less than 30		
F	Final			185	Not more than 600			
5	Soundness							
5 l	Le-Chatelier Expansion (mm)			1.00	Not more than 10.0			
1	Auto-Clave Expansion (%)			0.060	Not more than 0.8			
1 0	Normal Consistency (%)			28.00				
Ŭ	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