





53 Grade Ordinary Portland Cement

Despatched during Week No.		38	From	17-09-2018		То	23-09-2018
Test Certificate No.		38	Reference	e No.		WCW/IMS/QA/FM/08	
Dated		22-10-2018		T	T		
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 ₂ O ₃ + 0.65* Fe ₂ O ₃)			0.87	Not greater than 1.02 and not less than 0.80		
	Ratio of % Alumina to that of Iron Oxide AI_2O_3 / Fe ₂ O ₃			1.24	Not less than 0.66		
1	Insoluble Residue (% by mass)			0.60	Not more than 5.0 %		
	Magnesia (% by mass)			0.97	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						
2	Blaine's Specific Surface Area (m ² / kg)			307	Not Less than 225		
	Compressive Strength (MPa)						
3	72 ± 1h (3 Days)			37.8	Not less than 27.0		
5	168 ± 2h (7 Days)			46.9	Not less than 37.0		
	672 ± 4h (28 Days) *			60.3	Not less than 53.0		
	Setting Time (Minutes)						
4	Initial			130	Not less than 30		
	Final			185	Not more than 600		
	Soundness						
5	Le-Chatelier Expansion (mm)			1.00	Not more than 10.0		
	Auto-Clave Expansion	uto-Clave Expansion (%)			Not more than 0.8		
6	Normal Consistency (%	onsistency (%)					
0	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