





43 Grade Ordinary Portland Coment

	43 Gr	ade Ord	iina	ry Po	ortland Cem	ent	
9 11		08		From	19/02/2017	То	25/02/2017
Test Certificate No. 08 Dated 06/03/2		08 06/03/203			ence No. WD/LAB/TC/07		
S.N.	Parameters			sults ained	• • • • • • • • • • • • • • • • • • •		
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)		0.87		Not greater than 1.02 and not less than 0.66		
	Ratio of % Alumina to that of Iron Oxide Al ₂ O ₃ / Fe ₂ O ₃		1.26		Not less than 0.66		
	Insoluble Residue (% by mass)		0.7		Not more than 5.0 %		
	Magnesia (% by mass)		0.9		Not more than 6.0 %		
	Sulphuric Anhydride (% by mass)		2.7		Not More than 3.5 %		
	Total loss on Ignition (%)		:	1.8	Not More than 5.0 %		
	Chloride Content (%)			.021	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)		2	293	Not Less than 225		
3	Compressive Strength (MPa)						
	72 ± 1h (3 Days)		3	33.2 Not less than 23.0			
	168 ± 2h (7 Days)		4	2.7	Not less than 33.0		
	672 ± 4h (28 Days) *		Aw	aited	Not less than 43.0 & not more than 58.0		
4	Setting Time (Minutes)						
	Initial		130		Not less than 30		
	Final		1	L90	Not more than 600		
5	Soundness						
	Le-Chatelier Expansion (mm)			1.0	Not more than 10.0		
	Auto-Clave Expansion (%)		C	.05	Not more than 0.8		
6	Normal Consistency (%)		2	7.5			
	Temp. During Testing (°C)			27	$(27 \pm 2)^{0}$ C		

The above cement complies with the requirements of IS 269 : 2015 (Variety: OPC 43) for 43 Grade Ordinary Portland Cement

Manager (QA)

Chief Manager Production