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WORK TEST CERTIFICATE

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	53 Gra	de Ordii	nary	y Poi	rtland Cem	ent	
Despatched during Week No.		26		From	25/06/2017	То	01/07/2017
Test Certificate No. Dated		26 11/07/201	26 11/07/2017		ence No.	WD/LAB/TC/07	
S.N.	Parameters			ResultsRequirement as perbtainedIS 269 : 2015 (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)		0.88		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		1.29		Not less than 0.66		
	Insoluble Residue (% by mass)		0.6		Not more than 5.0 %		
	Magnesia (% by mass)		0.8		Not more than 6.0 %		
	Sulphuric Anhydride (% by mass)		2	2.9 Not More than 3.5 %			
	Total loss on Ignition (%)		1	8	Not More than 4.0 %		
	Chloride Content (%)		0.014 Not More than 0.1 % for general purpose b more than 0.05 % for pre-stressed structure				
	Physical Analysis						
2	Fineness						
	Blaine's Specific Surface Area (m ² / kg)		3	01	Not Less than 225		
з	Compressive Strength (MPa)						
	72 ± 1h (3 Days)		36.8		Not less than 27.0		
	168 ± 2h (7 Days)		4	6.3	Not less than 37.0		
	672 ± 4h (28 Days) *		6	0.3	Not less than 53.0		
4	Setting Time (Minutes)						
	Initial		125		Not less than 30		
	Final		1	70	Not more than 600		
5	Soundness						
	Le-Chatelier Expansion (mm)		1	.0	Not more than 10.0		
	Auto-Clave Expansion (%)		0.	006	Not more than 0.8		
6	Normal Consistency (%)		2	8.5			
	Temp. During Testing (⁰ C)		2	27	$(27 \pm 2)^{0} C$		

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

Pareherm?

Manager (QA)

Chief Manager -QA