





WORK TEST CERTIFICATE

53 Grade Ordinary Portland Cement							
Despatched during Week No.		03		From	15/01/2018	То	21/01/2018
Test Certificate No. Dated		03 20/02/2018			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)		0.91		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		1.31		Not less than 0.66		
	Insoluble Residue (% by mass)		0.5		Not more than 5.0 %		
	Magnesia (% by mass)		0.9		Not more than 6.0 %		
	Sulphuric Anhydride (% by mass)		3.1		Not More than 3.5 %		
	Total loss on Ignition (%)		1	.7	Not More than 4.0 %		
	Chloride Content (%)		0.0	0.019 Not More than 0.1 % for general purpose but more than 0.05 % for pre-stressed structures			
	Physical Analysis						
2	Fineness						
	Blaine's Specific Surface Area (m ² / kg)		312 Not Less than 225				
3	Compressive Strength (MPa)						
	72 ± 1h (3 Days)		37.3		Not less than 27.0		
	168 ± 2h (7 Days)		4	6.9 Not less than 37.0			
	672 ± 4h (28 Days) *		5	9.2	Not less than 53.0		
4	Setting Time (Minutes)						
	Initial		130		Not less than 30		
	Final		1	.90	Not more than 600		
5	Soundness						
	Le-Chatelier Expansion (mm)		1	L.5	Not more than 10.0		
	Auto-Clave Expansion (%)		0	.07	Not more than 0.8		
6	Normal Consistency (%)		2	7.8			
	Temp. During Testing (⁰ C)			27 $(27 \pm 2)^0$ C			

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

Parchermont 1

Manager (QA)

Chief Manager -QA