

IS 269:2015



CM/L 2023022

ACC

ACC Limited
Wadi Cement Works

WORK TEST CERTIFICATE

IS / ISO 9001



QMS

53 Grade Ordinary Portland Cement

Despatched during Week No.	25	From	18-Jun-2021	To	24-Jun-2021
Test Certificate No.	25	Reference No.		WCW/IMS/QA/FM/17	
Dated	23-Jul-2021				
S.N.	Parameters	Results Obtained	Requirement as per IS 269 : 2015 (Variety: OPC 53)		
Chemical Composition					
1	Lime Saturation Factor ($\text{CaO} - 0.7 * \text{SO}_3$) / ($2.8 * \text{SiO}_2 + 1.2 * \text{Al}_2\text{O}_3 + 0.65 * \text{Fe}_2\text{O}_3$)	0.92	Not greater than 1.02 and not less than 0.80		
	Ratio of % Alumina to that of Iron Oxide $\text{Al}_2\text{O}_3 / \text{Fe}_2\text{O}_3$	1.36	Not less than 0.66		
	Insoluble Residue (% by mass)	0.56	Not more than 5.0 %		
	Magnesia (% by mass)	0.83	Not more than 6.0 %		
	Sulphuric Anhydride (% by mass)	2.94	Not More than 3.5 %		
	Total loss on Ignition (%)	1.80	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				
	Blaine's Specific Surface Area (m ² / kg)	311	Not Less than 225		
3	Compressive Strength (MPa)				
	72 ± 1h (3 Days)	36.5	Not less than 27.0		
	168 ± 2h (7 Days)	46.6	Not less than 37.0		
	672 ± 4h (28 Days) *	59.5	Not less than 53.0		
4	Setting Time (Minutes)				
	Initial	150	Not less than 30		
	Final	220	Not more than 600		
5	Soundness				
	Le-Chatelier Expansion (mm)	1.50	Not more than 10.0		
	Auto-Clave Expansion (%)	0.050	Not more than 0.8		
6	Normal Consistency (%)	27.50			
	Temp. During Testing (0C)	27.00	(27 ± 2)0C		

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

Limestone (5%) added as Performance Improver

Manager (QA)

DGM QC

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