




TEST CERTIFICATE

Certificate No : OPC 43 / 20 / 2017 Date of Sample Receipt : 21/05/2017 Date of Issue: 22/06/2017

S.No	PARTICULARS	UNIT	VALUE	REQUIREMENT AS PER IS : 269 -2015 (OPC 43)	IS TEST METHOD
Physical Requirements					
1	Fineness Specific surface	M2/Kg	280	Min 225	4031 (P-2):1999(Reaff.2013)
2	Soundness Le-Chatelier expansion Autoclave expansion	MM %	1.00 0.02	Max 10 Max 0.8	4031 (P-3):1988(Reaff.2014)
3	Setting time Initial Final	Minutes Minutes	155 210	Min 30 Max 600	4031 (P-5):1988(Reaff.2014)
4	Compressive strength 72 ± 1 Hr 168 ± 2 Hr 672 ± 4 Hr	MPa MPa MPa	34.00 43.50 55.00	Min 23 Min 33 Min 43, Max 58	4031 (P-6):1988(Reaff.2014)
5	Standard consistency	%	29.50	Not Specified	4031 (P-4):1988(Reaff.2014)
Chemical Requirements					
1	Loss on ignition	%	1.38	Max 5.0	4032:1985(Reaff.2014)
2	Insoluble residue	%	2.20	Max 5.0	4032:1985(Reaff.2014)
3	Sulphuric anhydride	%	2.33	Max 3.5	4032:1985(Reaff.2014)
4	Magnesia	%	1.11	Max 6.0	4032:1985(Reaff.2014)
5	Lime Saturation Factor	Ratio	0.86	0.66 to 1.02	
6	Alumina Iron Ratio	Ratio	1.07	Min 0.66	
7	Total Chloride	%	0.01	Max 0.1	4032:1985(Reaff.2014)
8	Total Alkalies (As Na2O)	%	0.41	Not Specified	4032:1985(Reaff.2014)
9	Performance Improvers Added				
	a. Limestone	%	0.00		
	b. Fly ash	%	0.00		

Issued To : Marketing Division of Wonder Cement

Sample Testing period From 21/05/2017 to 18/06/2017
 The above cement complies with the requirements of
IS:269-2015 for Ordinary Portland Cement,43 Grade.
 Works : Wonder Cement Quality Control Laboratory, Wonder Cement Ltd, R.K. Nagar,
 Nimbahera-312601. Distt.-Chittorgarh. Raiaasthan. Tel.:+918003509999
(An ISO 9001, 14001 & OHSAS 18001 Certified Company) End of the report


 (Pradeep Kumar Jain)
 Authorized Signatory
QC/F-C 04
Page 1 of 1



TEST CERTIFICATE

Certificate No : OPC 53 / 20 / 2017 Date of Sample Receipt : 21/05/2017 Date of Issue: 22/06/2017

S.No	PARTICULERS	UNIT	VALUE	REQUIREMENT AS PER IS : 269 -2015 (OPC 53)	IS TEST METHOD
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Physical Requirements


1	Fineness Specific surface	M2/Kg	284	Min 225	4031 (P-2):1999(Reaff.2013)
2	Soundness Le-Chatelier expansion Autoclave expansion	MM %	1.00 0.02	Max 10 Max 0.8	4031 (P-3):1988(Reaff.2014)
3	Setting time Initial Final	Minutes Minutes	155 210	Min 30 Max 600	4031 (P-5):1988(Reaff.2014)
4	Compressive strength 72 ± 1 Hr 168 ± 2 Hr 672 ± 4 Hr	MPa MPa MPa	37.00 49.00 64.00	Min 27 Min 37 Min 53	4031 (P-6):1988(Reaff.2014)
5	Standard consistency	%	29.50	Not Specified	4031 (P-4):1988(Reaff.2014)

Chemical Requirements

1	Loss on ignition	%	1.32	Max 4.0	4032:1985(Reaff.2014)
2	Insoluble residue	%	2.08	Max 5.0	4032:1985(Reaff.2014)
3	Sulphuric anhydride	%	2.27	Max 3.5	4032:1985(Reaff.2014)
4	Magnesia	%	1.12	Max 6.0	4032:1985(Reaff.2014)
5	Lime Saturation Factor	Ratio	0.87	0.80 to 1.02	
6	Alumina Iron Ratio	Ratio	1.07	Min 0.66	
7	Total Chloride	%	0.01	Max 0.1	4032:1985(Reaff.2014)
8	Total Alkalies (As Na2O)	%	0.42	Not Specified	4032:1985(Reaff.2014)
9	Performance Improvers Added				
	a. Limestone	%	0.00		
	b. Fly ash	%	0.00		

Issued To : Marketing Division of Wonder Cement

Sample Testing period From 21/05/2017 to 18/06/2017
The above cement complies with the requirements of
IS:269-2015 for Ordinary Portland Cement,53 Grade.
Works : Wonder Cement Quality Control Laboratory, Wonder Cement Ltd, R.K. Nagar,
Nimbahera-312601. Distt.-Chittorgarh. Raiaasthan. Tel.:+918003509999
(An ISO 9001, 14001 & OHSAS 18001 Certified Company) End of the report


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Page 1 of 1