



JSW Cement Ltd

P.O. Vidyanagar, Tq : Sandur,  
Dist. Ballari - 583275 Karnataka, India  
Phone : 08395-241001  
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Website : www.jsw.in

CIN - U26957MH2006PLC160839



TC-11908



ISO 9001, ISO 14001, ISO 50001 & OHSAS 18001  
Certified by IRQS

IS 16415:2015



CM/L-6200134386

## TEST REPORT

		ULR	TC-1190823000000011F
Customer Name & Address:	Marketing JSW CEMENT LTD PO Vidyanagar, Tornagallu, Bellary 583275 , Karnataka	Date Of Issue :	05.09.2023
Let. Ref. No :	NA	Sample Received Date :	06.08.2023
Type of Sample :	CC	Sample Ref ID :	JSW/VNR/ 672 WEEK No:31
Sample Description :	Composite Cement	Duration of Testing :	07.08.2023 to 04.09.2023
Condition of sample :	UNSEALED	Test Method :	IS: 4032-1985 IS: 4031-1988
Environmental Condition Duration of Testing :	Temperature: 27 °C	Relative Humidity :	69 %

### TEST RESULT CHEMICAL PARAMETERS

Sr. No	Test Parameters	Test Method	Unit	Results	Requirement IS: 16415-2015
1	Insoluble Residue (% by mass)	IS: 4032-1985	%	15.17	Minimum 15.0 % -Maximum 35.0 %
2	Magnesia Oxide (MgO),(%by mass)	IS: 4032-1985	%	2.85	Maximum 8.0 %
3	Sulphur Trioxide (SO3)(%by mass)	IS: 4032-1985	%	1.90	Maximum 3.5 %
4	Sulphide Sulphur (% by mass)	IS: 4032-1985	%	0.16	Maximum 0.75 %
5	Loss on Ignition (% by mass)	IS: 4032-1985	%	2.32	Maximum 5.0 %
6	Chloride Content(%by mass)	IS: 4032-1985	%	0.009	Maximum 0.10 %
7	Alkali Content(%) as Na2O	IS: 4032-1985	%	0.38	Maximum 0.6 %





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## TEST REPORT PHYSICAL PARAMETERS

Sr. No	Test Parameters	Method of tests	Unit	Results	Requirement IS: 16415-2015
1	Consistency	IS 4031(Part 4)-1988	%	29.50	Not specified
2	Fineness	IS 4031(Part 2)-1999	M <sup>2</sup> /Kg	320	Shall not be less than 300 m <sup>2</sup> /kg
3	Initial Setting Time	IS 4031(Part 5)-1988	Minutes	155	Shall not be less than 30 Minutes
4	Final Setting Time	IS 4031(Part 5)-1988	Minutes	265	Shall not be more than 600 Minutes
5	Soundness (by Le-Chateliers)	IS 4031(Part 3)-1988	mm	1.00	Shall not be more than 10 mm
6	Soundness (by Autoclave)	IS 4031(Part 3)-1988	%	0.009	Shall not be more than 0.8 %
7	Compressive Strength; a) 72 ± 1h(3 days) b) 168 ± 2h(7 days) c) 672 ± 4h(28 days)	IS 4031(Part 6)-1988	Mpa	20.70 30.66 51.53	Shall not be less than 16.0 Mpa Shall not be less than 22.0 Mpa Shall not be less than 33.0 Mpa
8	Drying shrinkage	IS 4031(Part 10)-1988	%	0.01	Maximum 0.15 %

- Note:
- 1) This report is based on the sample received by our laboratory.
  - 2) The test result relates only to the item tested.
  - 3) This report shall not be reproduced, except in full, without the written permission of our Laboratory.
  - 4) Statement of conformity to a specification is provided considering the level of risk associated with decision
  - 5) Measurement Uncertainty is not taken into consideration while stating conformity with the specified requirements as requested by the customer.
  - 6) Any correction invalidates this report.

Reviewed and Authorized Signature

Name: H. H. Dabhi  
Designation: QM

\*\*\*END OF THE REPORT\*\*\*

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Part of O.P. Jindal Group

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