



TC-11908



CM/L-6957196

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

## TEST REPORT

		ULR	TC-1190823000000033F
<b>Customer Name &amp; Address:</b>	Marketing JSW CEMENT LTD PO Vidyanagar, Tornagallu, Bellary 583275 , Karnataka	<b>Date Of Issue</b> :	13.12.2023
<b>Let. Ref. No</b> :	NA	<b>Sample Received Date</b> :	14.10.2023
<b>Type of Sample</b> :	PSC	<b>Sample Ref ID</b> :	JSW/VNR/ 903 WEEK No:41
<b>Sample Description</b> :	PORTLAND SLAG CEMENT - CONCREEL HD	<b>Duration of Testing</b> :	15.10.2023 to 12.11.2023
<b>Condition of sample</b> :	UNSEALED	<b>Test Method</b> :	IS: 4032-1985 IS: 4031-1988
<b>Environmental Condition Duration of Testing :</b>	Temperature: 27 °C	<b>Relative Humidity:</b>	65 %

### TEST RESULT CHEMICAL PARAMETERS

Sr. No	Test Parameters	Test Method	Unit	Results	Requirement IS: 455-2015
1	Magnesia Oxide (MgO),(%by mass)	IS: 4032-1985	%	5.50	Maximum 10.0 %
2	Sulphur Trioxide (SO3)(%by mass)	IS: 4032-1985	%	1.77	Maximum 3.5 %
3	Sulphide Sulphur (% by mass)	IS: 4032-1985	%	0.21	Maximum 1.5 %
4	Loss on Ignition (% by mass)	IS: 4032-1985	%	0.88	Maximum 5.0 %
5	Insoluble Residue (% by mass)	IS: 4032-1985	%	0.90	Maximum 4.0 %
6	Chloride Content(%by mass)	IS: 4032-1985	%	0.013	Maximum 0.10 %
7	Alkali Content(%) as Na2O	IS: 4032-1985	%	0.39	Maximum 0.6 %



TC-11908



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

**TEST RESULT**  
**PHYSICAL PARAMETERS**

				ULR	TC-119082300000033F
Sr. No	Test Parameters	Method of tests	Unit	Results	Requirement IS: 455-2015
1	Consistency	IS 4031(Part 4)-1988	%	29.75	Not specified
2	Fineness	IS 4031(Part 2)-1999	M <sup>2</sup> /Kg	342	Shall not be less than 225 m <sup>2</sup> /kg
3	Initial Setting Time	IS 4031(Part 5)-1988	Minutes	140	Shall not be less than 30 Minutes
4	Final Setting Time	IS 4031(Part 5)-1988	Minutes	235	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	%	0.006	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	21.27 32.97 54.19	Shall not be less than 16.0 Mpa Shall not be less than 22.0 Mpa Shall not be less than 33.0 Mpa

- 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 by Signature:  
Name: H.K PALIWAL  
Designation: DGM

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

Page 02 of 02

