



TC-11908


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

TEST REPORT

		ULR	TC-1190823000000031F
Customer Name & Address:	Marketing JSW CEMENT LTD PO Vidyanagar, Tornagallu, Bellary 583275 , Karnataka	Date Of Issue :	06.11.2023
Let. Ref. No :	NA	Sample Received Date :	07.10.2023
Type of Sample :	PSC	Sample Ref ID :	JSW/VNR/ 879 WEEK No:40
Sample Description :	PORTLAND SLAG CEMENT - CONCREEL HD	Duration of Testing :	08.10.2023 to 05.11.2023
Condition of sample :	UNSEALED	Test Method :	IS: 4032-1985 IS: 4031-1988
Environmental Condition Duration of Testing :	Temperature: 27 °C	Relative Humidity:	64 %

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	%	5.29	Maximum 10.0 %
2	Sulphur Trioxide (SO ₃)(%by mass)	IS: 4032-1985	%	1.78	Maximum 3.5 %
3	Sulphide Sulphur (% by mass)	IS: 4032-1985	%	0.22	Maximum 1.5 %
4	Loss on Ignition (% by mass)	IS: 4032-1985	%	0.83	Maximum 5.0 %
5	Insoluble Residue (% by mass)	IS: 4032-1985	%	0.85	Maximum 4.0 %
6	Chloride Content(%by mass)	IS: 4032-1985	%	0.004	Maximum 0.10 %
7	Alkali Content(%) as Na ₂ O	IS: 4032-1985	%	0.38	Maximum 0.6 %



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TEST RESULT
PHYSICAL PARAMETERS

					ULR	TC-119082300000031F
Sr. No	Test Parameters	Method of tests	Unit	Results	Requirement IS: 455-2015	
1	Consistency	IS 4031(Part 4)-1988	%	30.00	Not specified	
2	Fineness	IS 4031(Part 2)-1999	M ² /Kg	346	Shall not be less than 225 m ² /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	250	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	%	0.058	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	21.92 33.47 54.17	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

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