

**ORIENT
CEMENT**

AN
ISO 9001
ISO 14001
OHSAS 18001
& TPM COMPANY

IS 1489



(PART-1)

CM/L-7398292

**Mazbooti mein A1
Bharose mein A1**



**ORIENT CEMENT LIMITED
QUALITY CONTROL LABORATORY
NASHIRABAD, JALGAON (MS)**

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NABL Accredited Laboratory
C.No.T-2027 & T-2028

**PORTLAND
POZZOLANA
CEMENT**

TEST CERTIFICATE

No.: C-15/03A
Date :27/02/2015

Sample : **Portland Pozzolana Cement (Fly ash based)**

Name and address of the customer : Despatch Deptt., Orient Cement Ltd., Jalgaon

Test request reference No. and Date : 03A,22/01/2015

Customer identification of sample : Avg. Sample of Week No. 03/15 (15/01/2015 to 21/01/2015)

Date of receipt of sample : 22/01/2015

Period / Date of testing:22/01/2015 to 26/02/2015

Laboratory code No. of sample : OCL/15/03A

S No	Tests Carried out	Tested as per	Results obtained	Requirements as per Specification IS:1489(Part-I)-1991
CHEMICAL PARAMETERS				
1	Loss on ignition (LOI)	IS:4032-1985	0.66	5.0 % by mass Max.
2	Insoluble Material (IM)	IS:4032-1985	29.20	$X + \frac{4.0(100-X)}{100}$ % by mass Max. Where, X = Declared % of pozzolana
3	Magnesia (MgO)	IS:4032-1985	1.55	6.0 % by mass Max.
4	Sulphuric anhydride (SO ₂)	IS:4032-1985	1.60	3.0 % by mass Max.
5	Chloride (Cl)	IS:4032-1985	0.018	0.1 % by mass Max.
PHYSICAL PARAMETERS				
1	Fineness (Blaine Method)	IS:4031-(Part-2)-1999	333	300 m ² /kg Min.
Soundness				
2	Le-Chatelier expansion	IS:4031-(Part-3)-1988	0.5	10 mm Max.
	Autoclave expansion	IS:4031-(Part-3)-1988	0.03	0.8 % Max.
Setting time				
3	Initial	IS:4031-(Part-5)-1988	150	30 minutes Min.
	Final	IS:4031-(Part-5)-1988	205	600 minutes Max.
Compressive Strength at				
4	72 ± 1 hr	IS:4031-(Part-6)-1988	29.0	16 MPa Min.
	168 ± 2 hrs	IS:4031-(Part-6)-1988	38.5	22 MPa Min.
	672 ± 4 hrs	IS:4031-(Part-6)-1988	54.0	33 MPa Min.
5	Drying Shrinkage	IS:4031-(Part-10)-1988	0.03	0.15 % Max.

1. The results relate only to the sample tested.
2. The certificate shall not be reproduced except in full without the written approval of laboratory.
3. The remains of the sample shall be disposed off after 2 months from the date of the certificate.

Authorised Signatory