

Cement Division Unit of Kesoram Industries Ltd
VASAVADATTA CEMENT UNIT, SEDAM

An ISO 9001 / ISO 14001 / IS 18001 Certified Company

TEST CERTIFICATE

PORTLAND POZZOLANA CEMENT
TEST & COMPLIANCE

Week No :19

Date: 11-Jun-2022

PARTICULARS OF TEST CARRIED OUT	TEST RESULTS OBTAINED	REQUIREMENTS OF IS 1489(Part-1):2015
CHEMICAL ANALYSIS :		
1. Total Loss on Ignition (% by mass)	3.02	5.0 Max.
2. Magnesia (% by mass)	1.21	6.0 Max.
3. Sulphuric anhydride (% by mass)	2.18	3.5 Max.
4. Insoluble Residue (% by mass)	30.10	$X + \frac{4.0(100-X)}{100} \text{ Max}$ 0.6 X Min where X is % pozzolana
5. Chloride (%)	0.02	0.10 Max.
PHYSICAL ANALYSIS		
1. Fineness (m ² /kg)	333	300 Min.
2. <u>Setting Time (Minutes)</u>		
a) Initial	180	30 Min.
b) Final	245	600 Max.
3. <u>Soundness</u>		
a) Le-chatelier Expansion (mm)	1.00	10.0 Max.
b) Auto clave (%)	0.04	0.8 Max.
4. <u>Compressive Strength (M Pa)</u>		
72 +/- 1h (3 Days)	23.50	16 Min.
168 +/- 2h (7 Days)	33.50	22 Min.
672 +/- 4h (28 Days)	48.50	33 Min.
5. Drying Shrinkage (%)	Awaited	0.15 Max.
6. Normal Consistency (%)	30.00	
7. Pozzolana Material used (%)	35.00	15-35 Max.

THE ABOVE CEMENT COMPLIES WITH IS 1489 (Part -1):2015 FOR PORTLAND POZZOLANA CEMENT (FLY ASH BASED)

Shalabata
HOD (QC)