



# STAR CEMENT LIMITED

LUMSHNONG; MEGHALAYA

## TEST CERTIFICATE

FOR

PORTLAND POZZOLANA CEMENT (FLY ASH BASED)



CM/L -5239868

### PARTICULARS

### TEST RESULTS

### B I S SPECIFICATION

(IS: 1489-Part I-2015)

#### PHYSICAL RESULT

1 **Compressive Strength (MPa) :**

72± 1 hr. (3 days)	30.00	16	Min
168± 2 hrs. (7 days)	40.00	22	Min
672 ± 4 hrs. (28 days)	RA	33	Min

2 **Normal Consistency (%)**

34.75

3 **Setting Time (Minutes) :**

Initial	130	30	Min
Final	160	600	Max

4 **Fineness - Blaine (m<sup>2</sup>/kg)**

376

300

Min

5 **Soundness:**

Le-Chatelier Expansion (in mm)	1.00	10	Max
Autoclave Expansion (%)	0.06	0.80%	Max
Drying Shrinkage (%)	RA	0.15%	Max

#### CHEMICAL RESULT

1 Total Loss on Ignition (%)

2.16

5.0

Max

2 Insoluble Residue (% by mass)

17.89

Not more than =X+4.0(100-X)/100  
0.60\*X

Min

(\*\*) Where X is declared % of FlyAsh  
in Cement

3 Magnesia (% by mass)

1.54

6.0

Max

4 Total Sulphur content as sulphuric  
anhydride (SO<sub>3</sub>), percent by mass

2.31

3.5

Max

5 Chlorides (% by mass)

0.01

0.1

Max

The above test results complies with IS 1489 (Part- I) :2015 Portland Pozzolana Cement (Fly Ash Based )

(\*) RA indicates "RESULTS AWAITED"

(\*\*) Fly Ash addition 20.92%

BATCH NO: 02/January 2022

DATE OF LOADING: - 08.01.22

N.B- This is system generated report. Hence no signature required.

HOD (QC)

Star Cement Ltd