



# 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

<u>PARTICULARS</u>	<u>TEST RESULTS</u>	<u>B I S SPECIFICATION</u>
1 <b>Compressive Strength (MPa):</b>		
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 <b>Normal Consistency (%)</b>	34.75	
3 <b>Setting Time (Minutes):</b>		
Initial	130	30 Min
Final	160	600 Max
4 <b>Fineness - Blaine (m<sup>2</sup>/kg)</b>	376	300 Min
5 <b>Soundness:</b>		
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