



STAR CEMENT LIMITED

LUMSHNONG; MEGHALAYA

TEST CERTIFICATE

FOR

53 GRADE ORDINARY PORTLAND CEMENT



CM/L - 5239262

<u>PARTICULARS</u>	<u>TEST RESULTS</u>	<u>B I S SPECIFICATION</u> (IS: 269-2015)	
<u>PHYSICAL RESULT</u>			
1 Compressive Strength (MPa):			
72± 1 hr. (3 days)	39.00	27	Min
168± 2 hrs. (7 days)	48.00	37	Min
672 ± 4 hrs. (28 days)	RA	53	Min
2 Normal Consistency (%)	31.75		
3 Setting Time (Minutes):			
Initial	125	30	Min
Final	150	600	Max
4 Fineness - Blaine (m²/kg)	303	225	Min
5 Soundness:			
Le-chatelier Expansion (in mm)	1.00	10	Max
Autoclave Expansion (%)	0.07	0.80%	Max
<u>CHEMICAL RESULT</u>			
1 Lime Saturation Factor	0.92	0.8	Min
(Ratio of percentage of lime to percentage of silica, Alumina and iron oxide) when calculated by the formula: $(CaO - 0.7 SO_3) / (2.8 SiO_2 + 1.2 Al_2O_3 +$		1.02	Max
2 Alumina Ratio	1.07	0.66	Min
Ratio of percentage of alumina to that of iron oxide			
3 Insoluble Residue (% by mass)	0.91	5.0	Max
4 Magnesia (% by mass)	1.82	6.0	Max
5 Total Sulphur content as sulphuric anhydride (SO ₃), percent by mass	2.50	3.5	Max
6 Total Loss on Ignition (%)	1.01	4.0	Max
7 Chlorides (% by mass)	0.01	0.1	Max

The above test results complies with IS 269-2015 for 53 grade Ordinary Portland Cement

(*) RA indicates "RESULTS AWAITED"

BATCH NO: 01/ January 2022

DATE OF LOADING: - 06.01.2022

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

HOD (QC)
Star Cement Ltd