



STAR CEMENT LIMITED

LUMSHNONG; MEGHALAYA

TEST CERTIFICATE

FOR

43 GRADE ORDINARY PORTLAND CEMENT



CM/L - 5239262

Particular

Test Result

B I S SPECIFICATION

(IS: 269-2015)

PHYSICAL RESULT

1	Compressive Strength (MPa):			
	72± 1 hr. (3 days)	31.00	23	Min
	168± 2 hrs. (7 days)	40.00	33	Min
	672 ± 4 hrs. (28 days)	RA	43-58	
2	Normal Consistency (%)	30.50		
3	Setting Time (Minutes):			
	Initial	155	30	Min
	Final	180	600	Max
4	Fineness - Blaine (m²/kg)	268	225	Min
5	Soundness:			
	Le-chatelier Expansion (in mm)	1.00	10	Max
	Autoclave Expansion (%)	0.06	0.80%	Max

CHEMICAL RESULT

1	Lime Saturation Factor (Ratio of percentage of lime to percentage of silica, Alumina and iron oxide) when calculated by the formula: $(CaO - 0.7 SO_3) / (2.8 SiO_2 + 1.2 Al_2O_3 + 0.7 SO_3)$	0.92	0.66 1.02	Min Max
2	Alumina Ratio Ratio of percentage of alumina to that of iron oxide	1.07	0.66	Min
3	Insoluble Residue (% by mass)	2.70	5.0	Max
4	Magnesia (% by mass)	1.78	6.0	Max
5	Total Sulphur content as sulphuric anhydride (SO₃), percent by mass	1.70	3.5	Max
6	Total Loss on Ignition (%)	3.91	5.0	Max
7	Chlorides (% by mass)	0.01	0.1	Max

The above test results complies with IS 269- 2015 for 43 grade Ordinary Portland Cement

(*) RA indicates "RESULTS AWAITED"

BATCH NO: 02/ January 2022

DATE OF LOADING: - 08.01.22

HOD (QC)

Star Cement Limited

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