



LAKE CEMENT LTD.

TEST CERTIFICATE

CEM II B-M 42.5 N

WEEK NO: 5 Year 2026

DATE OF REPORTING: 10/Mar/2026

Average quality of cement tested from 26/Jan/2026 To 1/Feb/2026

The sample was prepared and tested following Tanzanian Bureau of Standards requirements.

TZS 727-1/EAS18-1 Equivalent to EN 197-1

1. Chemical Test

Properties	Unit	Test Result	Specified Requirement TZS 727-1/EAS 18-1
Loss on ignition (LOI)	% (m/m)	7.41	No requirement
Insoluble residue (I R)	% (m/m)	3.24	No requirement
Sulfate (SO_3)	% (m/m)	2.15	3.5 max
Silicon dioxide (SiO_2)	% (m/m)	17.77	No requirement
Aluminium Oxide (Al_2O_3)	% (m/m)	5.29	No requirement
Ferric Oxide (Fe_2O_3)	% (m/m)	3.15	No requirement
Calcium Oxide (CaO)	% (m/m)	59.97	No requirement
Magnesium Oxide (MgO)	% (m/m)	1.52	5.0 max
Potassium Oxide (K_2O)	% (m/m)	0.18	No requirement
Sodium Oxide (Na_2O)	% (m/m)	0.29	No requirement
Total Alkali as Na_2O	% (m/m)	0.41	No requirement
Chlorides (Cl)	% (m/m)	0.003	0.10 max

2. Physical Test

Fineness	M^2/Kg	449	No requirement
Soundness	mm	1.00	10 max
Initial setting time	min	169	60 min
Final setting time	min	230	No requirement

Compressive Strength

2 Days	MPa	20.54	≥ 10
28 Days	MPa	47.52	$\geq 42.5 - \leq 62.5$

Remarks:

QUALITY HEAD

PRODUCTION HEAD

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