

Tanzania Portland Cement Public Limited Company

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MONTHLY CERTIFICATE OF CHEMICAL AND PHYSICAL TESTS TWIGA ORDINARY, CEM I CLASS 42.5 N

AUGUST,2025

Sampled and tested in accordance with the requirements of the Tanzanian Bureau of Standards

TZS 727-1/EAS 18-1. Equivalent to EN 197-1

	CHEMIC	CAL TEST RESULTS	
Test	Unit	Test results monthly average	Specified requirements
Loss on ignition	[%]	4.61	Less than 5.0%
Insoluble residue	[%]	1.04	Less than 5.0%
CaO	[%]	59.8	No Requirement
SiO ₂	[%]	20.8	No Requirement
CaO/SiO ₂	[-]	2.88	Not less than 2.0%
Al ₂ O ₃	[%]	5.57	No Requirement
Fe ₂ O ₃	[%]	3.28	No Requirement
MgO	[%]	0.75	Not more than 5.0%
SO ₃	[%]	2.62	Less than 3.5%
K₂O	[%]	0.42	No Requirement
Na ₂ O	[%]	0.08	No Requirement
P_2O_5	[%]	0.28	No Requirement
TiO ₂	[%]	0.42	No Requirement
MnO	[%]	0.05	No Requirement
(Na ₂ O+0.658K ₂ O)	[%]	0.35	No Requirement
Cl	[%]	0.001	Less than 0.10%
	PHYSICA	L TEST RESULTS	Color of the latest and the latest a
Density	[kg/m³]	3000	No requirement
Specific Surface (Blaine)	[m²/kg]	368	No Requirement
Sieving Residue on 45 mic.	[%]	12.5	No Requirement
Initial setting time	[minutes]	120	Not less than 60 minutes
Final setting time	[minutes]	160	No Requirement
Soundness (expansion)	[mm.]	1.0	Not more than 10 mm.
Compressive strength 2 days	[MPa]	22.1	More than 10 MPa.
Compressive strength 28 days*	[MPa]	50.0	Between 42.5 and 62.5 MPa

Remarks: *The 28 days strength is the average of previous month.

Wazo Hill, 2025/09/10th

Quality Control Manager

Plant Manager

Ruth Zaipuna (Tanzanian) Gary Whitehead (British) Oswald Urassa (Tanzanian) ommercial Director

Board Directors: Hakan Gurdaf (Turkish) Alfonso Velez (Spanish) Francesco Brambilla (Italian)