

## **Tanzania Portland Cement Public Limited Company**

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## MONTHLY CERTIFICATE OF CHEMICAL & PHYSICAL TESTS

## TWIGA MEGA CEM III/B-SR CLASS 42.5N JANUARY,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

CHEMICAL TEST RESULTS			
Test	Unit	Test results	Specified requirements
Loss on Ignition	[%]	3.28	No requirement
Insoluble Residues	[%]	1.04	Less than 5.0%
CaO	[%]	48.5	No requirement
SiO <sub>2</sub>	[%]	27.4	No requirement
CaO/SiO <sub>2</sub>	H "	1.77	Not less than 2.0%
Al <sub>2</sub> O <sub>3</sub>	[%]	9.05	No requirement
Fe <sub>2</sub> O <sub>3</sub>	[%]	2,52	No requirement
MgO	[%]	3.81	Not more than 5.0%
SO <sub>3</sub>	[%]	2.74	Less than 3.5%
K <sub>2</sub> O	[%]	0.34	No requirement
Na <sub>2</sub> O	[%]	0.19	No requirement
P <sub>2</sub> O <sub>5</sub>	[%]	0.06	No requirement
MnO	[%]	0.11	No requirement
TiO <sub>2</sub>	[%]	0.63	No requirement
(Na <sub>2</sub> O+ 0.658K <sub>2</sub> O)	[%]	0.42	No requirement
Cl-	[%]	0.001	Less than 0.10%
	PHYSICAL TES	T RESULTS	
Density	[kg/m³]	3102	No requirement
Specific Surface (Blaine)	[m²/kg]	505	No requirement
Sieving Residue on 45 mic.	[%]	5.5	No requirement
nitial Setting Time	[Minutes]	209	Not less than 60 minutes
Final Setting Time	[Minutes]	269	No requirement
Soundness (Expansion)	[mm]	1.0	Not more than 10.0 mm
Compressive Strength 2 days	[MPa]	14.5	More than 10.0 MPa
Compressive Strength 28 days*	[MPa]	50.8	Between 42.5 and 62.5 MPa

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

Waze Hill, 2025/02/03rd

Quality Control Manager

ty Control Manager Plant Manager

Hakan Gurdal (Turkish)
Allonso Volez (Spanish)
Francesce Frantillia (Italian)

Commercial Director