

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

P.O.Box 1950, Dar es Salaam-Tanzania

Telephone: +255-746 810 930 Fax: +255-746 810 931 Info@twigacement.com

Info@twigacement.com www.twigacement.com

## **MONTHLY CERTIFICATE OF CHEMICAL & PHYSICAL TESTS**

## TWIGA MEGA CEM III/B-SR CLASS 42.5N NOVEMBER,2024

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 T	EST RESULTS	
Test	Unit	Test results	Specified requirements
Loss on Ignition	[%]	3.00	No requirement
Insoluble Residues	[%]	1.04	Less than 5.0%
CaO	[%]	48.8	No requirement
SiO <sub>2</sub>	[%]	27.1	No requirement
CaO/SiO <sub>2</sub>	[-]	1.80	Not less than 2.0%
Al <sub>2</sub> O <sub>3</sub>	[%]	9.18	No requirement
Fe <sub>2</sub> O <sub>3</sub>	[%]	2.14	No requirement
MgO	[%]	3.57	Not more than 5.0%
SO <sub>3</sub>	[%]	2.80	Less than 3.5%
K <sub>2</sub> O	[%]	0.34	No requirement
Na <sub>2</sub> O	[%]	0.09	No requirement
P <sub>2</sub> O <sub>5</sub>	[%]	0.06	No requirement
MnO	[%]	0.05	No requirement
ΓiO <sub>2</sub>	[%]	0.50	No requirement
Na <sub>2</sub> O+ 0.658K <sub>2</sub> O)	[%]	0.26	No requirement
CI-	[%]	0.001	Less than 0.10%
	PHYSICAL TE	ST RESULTS	
Density	[kg/m³]	3102	No requirement
Specific Surface (Blaine)	[m²/kg]	514	No requirement
Sieving Residue on 45 mic.	[%]	5.5	No requirement
nitial Setting Time	[Minutes]	174	Not less than 60 minutes
Final Setting Time	[Minutes]	230	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]	50.6	Between 42.5 and 62.5 MPa

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

Wazo Hill, 2024/12/03rd

Quality Control Manager

Plant Manager

Commercial Director

Hosat (Treptore) Haker Gurda (Turken) Altama Vena (Spanish) Francesco Brandilla (Ilaian)

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