

Tanzania Portland Cement Public Limited Company P.O.Box 1950,Dar es Salaam-Tanzania Telephone: +255 746 810930 Fax: +255 746 810931 Info@twigacement.com Www.twigacement.com

## MONTHLY CERTIFICATE OF CHEMICAL AND PHYSICAL TESTS

## TWIGA EXTRA, CEM II/B-L CLASS 32.5 R

## MAY, 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

	CHEMICA	L TEST RESULTS	THE OLD PROPERTY AND
Test-	Unit	Test results monthly average	Specified requirements
Loss on ignition	[%]	13.1	No Requirement
Insoluble Residue	[%]	1.22	Less than 5.0%
CaO	[%]	55.4	No Requirement
SiO <sub>2</sub>	[%]	18.4	No Requirement
CaO/SiO <sub>2</sub>	(E)	3.00	Not less than 2.0%
Al <sub>2</sub> O <sub>3</sub>	[%]	5.11	No Requirement
Fe <sub>2</sub> O <sub>3</sub>	[%]	3.24	No Requirement
MgO	[%]	1.30	Not more than 5.0%
<b>SO</b> 3	[%]	2.55	Less than 3.5%
K2O	[%]	0.40	No Requirement
Na <sub>2</sub> O	[%]	0.17	No Requirement
P2O5	[%]	0.40	No Requirement
liO2	[%]	0.52	No Requirement
InO	[%]	0.07	No Requirement
Na2O+0.658K2O)	[%]	0.43	No Requirement
Cl	[%]	0.002	Less than 0.10%
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Density	[kg/m <sup>3</sup> ]	3100	No requirement
pecific Surface (Blaine)	[m <sup>2</sup> /kg]	459	No Requirement
ieving Residue on 45 mic.	[%]	11.8	No Requirement
nitial setting time	[minutes]	160	Not less than 75 minutes
inal setting time	[minutes]	216	Not Requirement
oundness (expansion) -	[mm.]	1.0	Not more than 10 mm.
Compressive strength 2 days	[MPa]	15.1	More than 10 MPa.
Compressive strength 28 days*	[MPa]	35.3	Between 32.5 and 52.5 MPa

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

Wazo Hill 2025/06/05<sup>th</sup>

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

**Plant Manager** 

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

Commercial Director

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