

Tanzania Portland Cement Public Limited Company

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Commercial Director

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

MAY,2024

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

TZS 727-1/EAS 18-1

		Test results	
Test	Unit	monthly average	Specified requirements
Loss on ignition	[%]	4.88	Less than 5.0%
Insoluble residue	[%]	1.00	Less than 5.0%
CaO	[%]	60.7	No Requirement
A STATE OF THE STA	[%]	20.5	No Requirement
* /SiO ₂	[-]	2.96	Not less than 2.0%
/3	[%]	5.14	No Requirement
13	[%]	3.32	No Requirement
	[%]	0.75	Not more than 5.0%
	[%]	2.48	Less than 3.5%
K ₂ O	[%]	0.36	No Requirement
Na ₂ O	[%]	0.14	No Requirement
P ₂ O ₅	[%]	0.08	No Requirement
TiO ₂	[%]	0.36	No Requirement
MnO	[%]	0.06	No Requirement
(Na ₂ O+0.658K ₂ O)	[%]	0.34	No Requirement
Cl	[%]	0.001	Less than 0.10%
	PHYSICA	AL TEST RESULTS	
Density.	[kg/m³]	3000	No requirement
Specific Surface (Blaine)	[m²/kg]	351	No Requirement
Sieving Residue on 45 mic.	[%]	13.4	No Requirement
Initial setting time	[minutes]	125	Not less than 60 minutes
Soundness (expansion)	[mm.]	1.0	Not more than 10 mm.
Compressive strength 2 days	[MPa]	21.7	More than 10 MPa.
Compressive strength 28 days*	[MPa]	48.2	Between 42.5 and 62.5 MPa

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

Wazo Hill, 2024/06/05th

Quality Control Manager

Board Directors: Hagan Gurdal (Turkish) Altiquita Velez (Spanish) Funnesco Brambilla (Italian) Plant Manager

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