

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

JULY,2024

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

TZS 727-1/EAS 18-1

		27-1/EAS 10-1	
	CHEMIC	AL TEST RESULTS	
Test	Unit	Test results monthly average	Specified requirements
Loss on ignition	[%]	4.78	Less than 5.0%
Insoluble residue	[%]	1.00	Less than 5.0%
CaO	[%]	60.5	No Requirement
SiO ₂	[%]	20.8	No Requirement
CaO/SiO ₂	[-]	2.90	Not less than 2.0%
Al ₂ O ₃	[%]	5.02	No Requirement
Fe ₂ O ₃	[%]	3,40	No Requirement
MgO	[%]	0.96	Not more than 5.0%
SO ₃	[%]	2.45	Less than 3.5%
K ₂ O	[%]	0.38	No Requirement
Na ₂ O	[%]	0.16	No Requirement
P ₂ O ₅	[%]	0.28	No Requirement
ΓiO ₂	[%]	0.44	No Requirement
MnO	[%]	0.06	No Requirement
(Na ₂ O+0.658K ₂ O)	[%]	0.41	No Requirement
CI ⁻	[%]	0.001	Less than 0.10%
	PHYSICA	AL TEST RESULTS	
Density	[kg/m ³]	3000	No requirement
Specific Surface (Blaine)	[m²/kg]	378	No Requirement
Sieving Residue on 45 mic.	[%]	13.0	No Requirement
nitial setting time	[minutes]	145	Not less than 60 minutes
oundness (expansion)	[mm.]	1.0	Not more than 10 mm.
Compressive strength 2 days	[MPa]	21.2	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, 2024/08/05th

Quality Control Manager

Plant Manager

Commercial Director

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