



**NYATI  
CEMENT**

BUILDS  
FASTER  
LASTS  
LONGER

LAKE CEMENT LTD.

## ABOUT THE INDUSTRY



Infrastructure growth is the mainstay of any developing country. Tanzania is witnessing a major growth in infrastructure sector, which in turn drives the growth in the cement market. Tanzanian cement market is evolving from a seller's market to buyer's market.

The current Installed capacity of cement production in Tanzania is more than sufficient to cater to the growing demand for next 8 to 10 years.

"Nyati Cement" manufactured and marketed by Lake Cement Limited at Kimbiji, Dar-es-Salaam with 100% locally sourced material has carved a niche for itself in terms of superior quality product and outstanding services to its customers.



# T H E L A K E C E M E



INTEGRATED  
MANUFACTURING



OWN POWER FOR  
UNINTERRUPTED  
PRODUCTION



OWN  
CLINKER



## ABOUT US



Lake cement manufactures high quality "Nyati" brand cement by engaging state of the art technology, best manufacturing practices and stringent quality controls.

Over the past decade, Lake Cement LTD has established itself as a leading cement manufacturer in Tanzania. As innovators and trendsetters, we have been at the forefront of developing innovative products and processes for sustainable growth.

"Nyati" Cement embodies 'Strength' and 'reliability'. These attributes have earned trust of Engineers, Architects, Consultants, Contractors, RMC manufactures, Block makers and home builders. Apart from usage in commercial and residential buildings, "Nyati" cement is also being used in construction of projects under Tanzania Railway Cooperation (TRC), Tazara, Tanroad, Tarura, Tanesco, Ministry of Water and Irrigation and Tanzania Power Development Cooperation (TPDC).

## MISSION

To manufacture and deliver consistent high quality cement to our customers with service par excellence.

## VISION

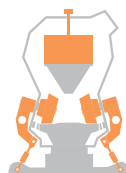
To become a key driver in Tanzania's growth by creating value for our customers, employees, business partners and shareholders - through fundamentally sound governance and policies.



# NT ADVANTAGE



CONSISTENT  
QUALITY



BETTER ENERGY-  
EFFICIENCY



ENHANCED  
SUSTAINABILITY







## THE PLANT

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Nyati Cement Plant is situated in Kigamboni district of Dar es Salaam region. It is a fully integrated unit producing its own clinker and cement. The facility is equipped with the the most modern process and energy efficient equipments in East Africa. The plant has a capacity to produce cement upto 1,000,000 Metric Ton of cement of various grades annually. The company has its own limestone mines and a 10MW captive thermal power plant on-site. At Nyati Cement, we are proud to have developed 100% Tanzanian sourcing for requirements of all raw materials and fuels.



Tanzania's first cement plant to have 10 MW captive power plant; ensuring not only uninterrupted production with consistent quality but also enhanced equipment efficiency

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Managed, maintained and operated by a team of qualified cement industry professionals with over 20 years of experience

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Equipped with a fully automated electronic packing machine to maintain consistently accurate weight of the cement bags

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Integrated manufacturing comprising centralised mining, clinkerisation, production and packing

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Tanzania's first vertical roller mill with a five-stage preheater

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A closed clinker storage yard to store 30,000 MT clinker

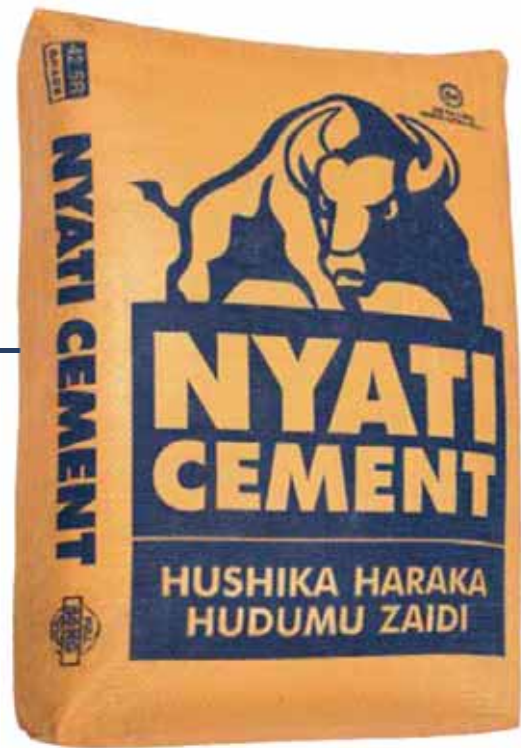
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## PRODUCT: 42.5 R

CEM II A-L 42.5 R

### KEY FEATURES AND BENEFITS

- A superior performance portland cement
- Excellent high early strength
- High final compressive strength
- Enhanced workability and flow ability



**42.5R GRADE**

### APPLICATION

- Suitable for precast concrete and all kind of construction works
- Ideal for use with cement extenders like fly Ash, Slag, Silica etc to produce custom on site concrete mixes
- Ready Mix concrete/ reinforce concrete
- Higher strength concrete
- Hydraulic structures

### FEATURES

TEST / CHARACTERISTICS	CEM II A-L 42.5 R (TBS REQUIREMENTS)	NYATI CEM II A-L 42.5 R
Initial setting time in minutes	60(Min)	171 (Min)
Sounds (Expansion) in mm	10 MM (Max)	1.58 MM
Early strength (2 days) N/MM2	20 (MPA) for 2 days	21-22 MPA
Early strength (7 days) N/MM2	Not required	30-32 MPA
Standard strength (28 days) N/MM2	≥ 42.5 MPA	50-52 MPA



Prestressed concrete components



Precast concrete items such as paving blocks / tiles / building blocks



Hydraulic structures



Ready-mix Concrete (RMC)

# PRODUCT: 42.5 N

## CEM II A-L 42.5 N KEY FEATURES AND BENEFITS

- A superior performance portland cement
- Normal Initial Strength
- Excellent Workability With Plasticizers
- High Ultimate Compressive Strength



## APPLICATION

- Suitable for higher grade concrete and all kinds of construction works
- Ideal for use with cement extenders like fly Ash, Slag, Silica etc to produce custom on site concrete mixes
- Ready Mix concrete
- Higher strength concrete
- Hydraulic structures

## FEATURES

TEST / CHARACTERISTICS	CEM II A-L 42.5 N (TBS REQUIREMENTS)	NYATI CEM II A-L 42.5 N
Initial setting time in minutes	60(Min)	170 (Min)
Sounds (Expansion) in mm	10 MM (Max)	0.79 MM
Early strength (2 days) N/MM2	≥ 10 MPA	20-21 MPA
Early strength (7 days) N/MM2	Not required	30-31 MPA
Standard strength (28 days) N/MM2	≥ 42.5 MPA	50-51 MPA



High Grade Concrete



Concrete items such as paving blocks / tiles / building blocks



Hydraulic structures



Ready-mix Concrete (RMC)



# PRODUCT: 32.5 N

## CEM II B-L 32.5 N KEY FEATURES AND BENEFITS

- Moderate strength growth dynamics
- Moderate heat of hydration
- Good workability and plasticity of concrete mix
- Optimal time of the concrete mix working properties maintainance
- Good adhesion to the substrates (significant reduction in need of hydrated lime use in production of mortars and plasters)
- Low shrinkage



32.5N GRADE

## APPLICATION

- Mass concreting In large volumes
- "Lean" concrete for the foundation of supporting structures
- Mortars / Masonry general works
- Road stabilization
- General civil work
- Gold mines

## FEATURES

TEST / CHARACTERISTICS	CEM II B-L 32.5 N (TBS Requirements)	CEM II B-L 32.5 N
Initial setting time in minutes	75 (Min)	175(Min)
Sounds (Expansion) in mm	10 MM (Max)	2.92 MM
Early strength (2 days) N/MM2	Not Required	Not Required
Early strength (7 days) N/MM2	16 MPA(Min)	26-27 MPA
Standard strength (28 days) N/MM2	≥ 32.5 MPA	40-42 MPA



RCC



Asbestos products such as sheets and pipes



Non-structural woks such as plastering, flooring etc.



General civil engineering works



# PRODUCTS: OPC 42.5 N

## CEM I OPC 42.5 N KEY FEATURES AND BENEFITS

- Suitable for all types of constructions
- Exellent high early strength
- High final compressive strength
- Enhanced workability and flowability



OPC 42.5N GRADE

## APPLICATION

- Suitable for precast concrete and all kind of construction works
- Ideal for use with cement extenders like fly Ash, Slag, Silica etc to produce custom on site concrete mixes
- Ready Mix concrete/ reinforce concrete
- Higher strength concrete
- Hydraulic structures

## FEATURES

TEST / CHARACTERISTICS	CEM I OPC 42.5 N (TBS REQUIREMENTS)	NYATI CEM I OPC 42.5 N
Initial setting time in minutes	60(Min)	150 (Min)
Sounds (Expansion) in mm	10 MM (Max)	0.88 MM
Early strength (2 days) N/MM2	≥ 10 MPA	21-22 MPA
Early strength (7 days) N/MM2	Not required	30-32 MPA
Standard strength (28 days) N/MM2	≥ 42.5 MPA - ≤62.5 MPA	50-51 MPA



Prestressed concrete components



Precast concrete items such as paving blocks / tiles / building blocks



Hydraulic structures



Ready-mix Concrete (RMC)

## QUALITY



We understand that a building is only as strong as the cement it is constructed with, hence our stringent quality standards are governed by our Quality Policy.

①

To provide products conforming to Tanzania Bureau of Standards (TBS) and exceeding customer expectations

②

To continually improve performance and effectiveness of the Quality Management System

The quality of our products is of paramount importance to us.

A state-of-the-art dry process technology for producing cement. It is monitored by a round-the-clock automated video surveillance at the burning zone



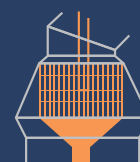
A fully equipped world-class laboratory with XRF spectrometer for hourly sampling and testing to ensure and maintain the quality of the cement



Fully-computerised central control room for monitoring the operation of the entire plant with intelligent Motor Control Centres (MCCs) and sophisticated instrumentation controls



High-efficiency classifiers have been installed at the raw material (roller) and cement mills. They give more accurate separation and thereby reduce over-grinding and the mill's energy consumption





## DISTRIBUTION NETWORK



Nyati cement has distributors at all major centres in Tanzania, who carry cement in their vehicles and meet the market demand of Nyati Cement.

We also give cement to our customers on delivered basis in and around Dar-es-Salaam. We have our own fleet of bulkers (Silo Buses) to supply cement in loose to big projects and RMC plants.

## SERVICE

We complement the quality of our products by providing timely and pertinent technical support to customers on issues related to architectural, structural and general civil engineering.

In addition to technical seminars for masons and block makers, we also educate and train our field staff and the sales force of our business partners regarding our products and their applications.



# PROJECTS USING NYATI CEMENT



Since inception, Nyati Cement has cemented itself as a preferred choice of cement by Civil Engineers, Structural Consultants, Architects, Site Engineers, Contractors, Block Makers, RMC Manufactures and Individual House Builders. Within a short time, Nyati cement has been approved and is being used successfully in several key infrastructural projects in Tanzania.

## RAILWAYS

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- Standard gauge railway project PHASE I Dar es Salaam to Morogoro
- Standard gauge railway project PHASE II Morogoro - Makutupora (Dodoma)

## TANESCO

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- Makambako - Songea Transmission Line
- Rusumo -Nyakanazi 220KV Transmission Line

## WATER PROJECTS

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- Shinyanga - Tabora Water Pipe Line Project

## HIGH RISE BUILDINGS AND OTHER CONSTRUCTIONS

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- Kampala University Campus in Dar-es-salaam
- High rise and other buildings in Tanzania/ Rwanda/ Burundi/ Malawi and DRC.

## GOLD MINES

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- Twangiza Mining SRL, DRC
- Namoya Mining SA, DRC

## PORT

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- Kareme Port Project

## NHC PROJECTS

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- Kawe Housing Project / UDSM Project / Jakaya Kikwete Cardiac Institute Muhimbili
- Dodoma Government office building projects

## HYDROPOWER / DAM

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Mwalimu Julius Nyerere Hydel Power Project at Rufiji

## RMC

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Most major RMC manufactures in Dar es Salaam have used/ are using Nyati Cement in manufacturing of various grades of concrete.

## ROADWAYS

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- Mangaka-Nakapanya Section 70.5Km
- Nakapanya-Tunduru Section 66.5Km
- Mangaka - Tamaswala Section 65.5 Km
- Namtumbo - Tunduru Section 58.5 Km
- Sanya Juu - Kamwanga 96.9 Km
- Kilombero Bridge, Ifakara 384Km
- Magole - Turiani Section 48.6 Km
- Sumbawanga - Kanazi Section 75 Km
- Songea - Matogoro 10.4Km
- Sumbawanga - Mpanda 188.5 Km
- Njombe - Makete 107.4 Km
- Morogoro - Dulame - Makete 53.5 Km
- Mwigumbi Maswa Bariadi 171 Km
- Tabora (Usesula) - Koga -Mpanda 335 Km





LAKECEMENT.COM

# LAKE CEMENT LTD.

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## PLANT

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