

NITRO EXPLOSIVES (T) LTD

COMPANY PROFILE



ALWAYS ON TIME

SAFETY FIRST



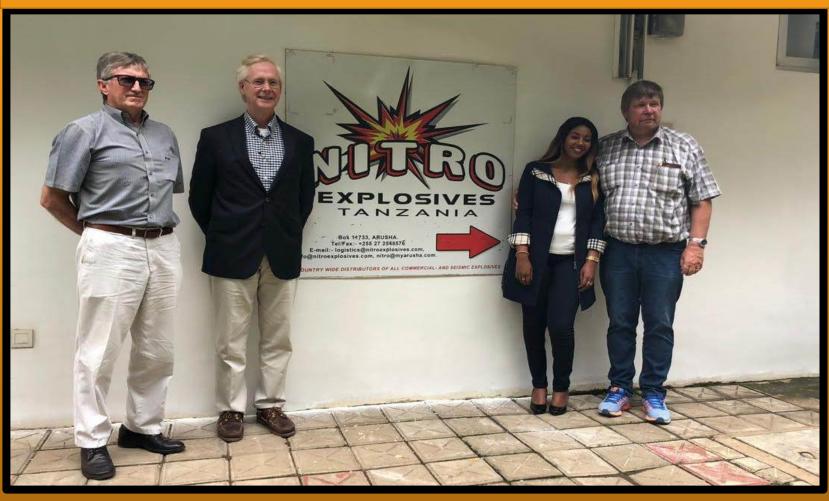




COMPANY TANZANIAN DIRECTORS



NITRO EXPLOSIVES DIRECTORS / SHAREHOLDERS



CONTACT US



Email: info@nitroexplosives.com

FOUNDING SHARE HOLDERS

AT THE BACK: MD JOHAN VILJOEN AND LIGHTNESS VILJOEN



AT THE FRONT:

YUSSUF MUSHI AND ZAM-ZAM MUSHI

CONTACT US



Email: info@nitroexplosives.com

ABOUT US

- ❖ Nitro Explosives (T) Ltd, is a registered entity since 1997. From 2002 dealing with commercial explosives, detonator assemblies, blasting services, explosives storage and explosives stores/magazines construction on behalf of the Clients. Nitro Explosives(T)LTD confirm to Local Content guidelines while Austin Powder from USA is in partnership.
- ❖ Head Office is in Arusha Tanzania. Distribution points, magazines situated at Mirerani-Simanjiro serving Mirerani Tanzanite Mines, Nanyala-Mbozi serving the Southern zone, Makombe-Lugoba serving the Eastern & Central zone, and Kitengwe-Nzega on the making targeting to serve the lake Zone. At Mavuji (Lindi Region) Emulsion Plant is set up called EDEN, ready to manufacture mid-June 2021, this will supply the whole of Tanzania and neighboring countries using Bulk Tankers and MMU's. With this set up, Nitro can easily supply PUMPABLE EMULSION to our clients in various places within Tanzania and Neighboring Countries.
- Our clientele to be, Small and Big Scaled Miners, Quarries, Road Constructors, Cement Factories and other Infrastructure Projects. This include participating on mega national projects such as the Standard Gauge Rail Construction, Hydropower Dam, Rapid Bus Transport System, other dams and bridges in Tanzania.
- Export Commercial Explosives to Kenya, Rwanda and Ethiopia with our own Logistics.
- Supply Seismic Exploration Projects in East Africa.
- On all these projects, we supply commercial explosives together with blasting services through our long-experienced teams of highly trained and certified Blasting Crews.



Company Mission

- Safety is our first priority.
- Our company Mission is to provide safe and high standard services and quality products to customers who require Commercial explosives products or services in the mining and construction industries in Central and East Africa.
- Building a strong management team and support staff to serve customers as per their expectations.
- Learning from industry leaders and adjusting to demands.
- Building strong relationships and partnerships with suppliers and sub-contractors.
- Acquiring and building strong business relationships with Companies in countries targeted for expansion.
- Building sustainable relationships with Tanzanian small scale mining customers.
- ❖ Increasing Capability, Storage and Manufacturing Capacity.
- Extend functions on our own blasting software Nitro Blast Insight.
- We deliver safely and on time.



Company Vision

- ❖ We strive to become the best supplier of commercial and seismic explosives in East and Central Africa.
- Unique and creative solutions that meet the client's expectations regarding the ethical principles of relationships and not transactions.
- Creative approaches to the client's special needs to find unique and tailored solutions.
- **❖** Teamwork is based on progressive communication.
- Professional quality of services provided by a highly motivated team.
- Strong technology background from Austin, backed by superior quality products.
- ❖ 24/7 availability.
- To always do honest business to keep up with our good credibility.
- **ALWAYS ON TIME**



OUR SERVICES

- We supply selected commercial packed explosives.
- ❖ A range of Shock Tube Detonators is within our reach, namely for underground and the open cast Nonelectric Detonators.
- Ammonium Nitrate Porous Prill in 25kg bags and Jumbo bags. ANFO (Ammonium Nitrate Fuel Oil) on order can be supplied to our clients ready for use in 25kg.
- Detonating Cords from 3.5 gram/meter to 40 gram/meter.
- ❖ PETN Boosters in different sizes as per customer requirements.
- We also provide professional blasting services as per client's requirements including training, technical advice, explosives storage and logistics or delivery up to legal end user.
- We also supply or pump, straight or blend emulsion as per the client's requirements, down the hole.
- Non-Explosives where Commercial Explosives cannot be used.
- Vibration and air blast monitoring as well as blast analysis.
- Handheld Rock drills, drill steel and bits.
- Supply basting accessories such as seismographs, shot exploders and resistance meters.
- Strictly, all our services are provided to the licensed Clients.

CORE VALUES

- Professionalism.
- Honesty and Loyalty.
- ❖ Safety.
- Customer Centric.
- Integrity.
- Pioneering Technology.
- Staff Education and Empowerment.
- Quality Service and Quality Products.
- Community Development and upliftment.

FUTURE STRATEGIES

- Due to the growth in infrastructure projects and mining activities, Nitro is focusing to extend its services beyond limits.
- ❖ Tanzania to the Neighboring Countries. Our research has exceeded our expectations and we are in the process of gearing up for large growth in various neighboring East and Central African Countries.
- With the entry of Austin Powder an Emulsion Plant has been established to include manufacturing on the list of activities, with an intention to cover Tanzania and the neighboring Countries.
- ❖ Professional Services in the form of blasting services, staff training, and technical advice has been a small arterial to our main business of explosives sales, but there is a large need for these services, and we attend to meet this demand by growing our staff required to provide these services.



EZ-STOPPER



EZ-DET



EZ-TRUNKLINE



PRIMADET-NTD



PRIMADET-LP



VARIETY-LP-TIMING

CONTACT US



Email: info@nitroexplosives.com



CARTRIDGE EXPLOSIVES



CORDTEX



CAST BOOSTERS



ALL DETONATORS



SHOT EXPLODERS



SEISMIC DETONATORS

CONTACT US



Email: info@nitroexplosives.com



AMMONIUM
NITRATE
34.40NN
WEIGHT 500NR
PRODUCED IN UARANE
PRODUCED IN UARANE

OHM-METERS



EXPLOSIVES(V6)





RIOGEL



CAST BOOSTERS



EXPLOSIVES(EMEX)

CONTACT US



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LOADING AMMONIUM NITRATE FROM HARBOR



SEISMIC BOOSTER

GEOPRIME®

Bioremediation Technology in Pentolite



Product Description

GEOPRIME is a high energy, highly reliable, seismic explosive containing patented bioremediation technology (see back for detailed explanation) and made from the highest quality PETN and other high explosive materials ensuring reliability, consistency and durability. GEOPRIME provides consistent energy release in all extreme seismic environments regardless of hydrostatic pressure or borehole depths.

Application Recommendations

- NEVER use Dyno Nobel seismic explosive products and/or components with explosive products and/or components made by other manufacturers.
- ALWAYS use the Dyno Nobel Electric Super Seismic high strength detonator for optimum results.
- Recommended temperature range is -40°C to 65°C (-40°F to 150°F). Geoprime is unaffected by extremely low temperatures but detonators produce less energy below -40°C (-40°F).
- ALWAYS use built-in cap wells for seismic detonators. Two detonators are recommended for insurance and reliability where extreme environmental conditions or prolonged exposure periods are encountered.
- Maximum water depth is 92 meters (300 feet; 125 psi) for 6 months.
- ALWAYS use 10 gm/m (50 grains/foot) or higher core load detonating cord with a double wrap clove hitch knot when initiating Geoprime with detonating cord not configured for Cut To Fit initiation. Light core load "Cut to Fit" (2.2 gm/m, 10 grains/ foot) detonating cord is only recommended with Cut To Fit Geoprime.

USE CAUTION WHEN SLEEP TIME IS ANTICIPATED

A loaded hole that is not shot immediately after the detonator tests positive with a ShotPoint Tracker™ or other testing device could fail for reasons beyond the control of the drill crew and product manufacturer. Reasons for failure could include but are not limited to geologic shifting, lightning, vandalism, farmer or animal interference.

Technical Information



MSDS #1145

Properties	#1
Energy ^a (cal/g)	1,500
Gas Volumea (moles/kg)	27.9
Velocity ^c (m/sec) (ft/sec)	7,500 24,600
Detonation Pressure ^e (Kbars)	230
Density (g/cc)	1.63
Water Resistance	Excellent

- *All Dyno Nobel Inc. energy and gas volume values are calculated using PRODET™, the computer code developed by Dyno Nobel Inc. for its exclusive use. Other computer codes may give different values.
- ^cUnconfined 57 mm diameter x 2 kg charge.

IMPORTANT!

Ignoring these warnings may result in injury or death!

- ALWAYS exercise extreme caution when approaching a shothole that has not vented. Venting gases after detonation are common. BLOWOUTS CAN INJURE OR KILL.
- NEVER attempt to alter the product by cutting, sawing or disassembly of the package.
- NEVER drop load explosive into a borehole.
- NEVER attempt to dislodge explosives by pushing with a drill stem.
- NEVER unshunt electric detonators prior to use except to test with blasting galvanometer.
- ALWAYS shunt electric detonators and/or the blast circuit after testing and keep shunted until connected to blasting machine.
- NEVER use light core load "Cut to Fit" (10.6 grains/foot, 2.2 grams/meter) detonating cord to prime GEOPRIME.
- ALWAYS ask if you don't know before proceeding.

Hazardous Shipping Description
Boosters, 1.1D, UN 0042 EX-2005120120



The Fleet of Vehicles at our disposal which have been specifically modified to transport explosives and explosives accessories are as follows:



EMULSION PUMP TRUCKS



EMULSION TANKER

CONTACT US Email: info@nitroexplosives.com



EXPLOSIVES TRUCKS



EXPLOSIVES TRUCKS

CONTACT US



Email: info@nitroexplosives.com



OPERATIONAL TRUCKS



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Nitro is equipped with sufficient equipment for moving heavy material and items in our plant and magazine warehouses.

MATERIAL HANDLING EQUIPMENTS







Email: info@nitroexplosives.com

WORKSHOP

❖ Nitro is equipped with workshops where our mechanics can perform maintenance, repairs or modifications of our company vehicles and equipment for improving efficiency and reducing downtime.



TRUCK MAINTANANCE



Email: info@nitroexplosives.com

OUR CAPACITY

Our current storage and distribution capacity (Magazine's and Logistics Fleet) allow us to retail 1000 tons Emulsion, 1000MT of Ammonium Nitrate, 500MT of Fracture Explosives and 1,200,000 units of detonators monthly.

HEAVY DUTY TRACTOR TRUCKS FOR TRANSPORTING EXPLOSIVES AND OTHER MATERIALS FROM FACTORY, MAGAZINE POINTS TO CLIENTS.

- ❖ 10 Units capacity 28 TONS.
- ❖ 6 Units 7 TONS Capacity trucks.
- ❖ 5 Units 28 TONS Capacity Emulsion Tankers.
- ❖ Mobile Manufacturing Unit (MMU) 3 UNITS.
- ❖ 1 Lowbed.
- ❖ 1 Crane Truck
- ❖ FUEL TANKER TRAILER 1 Unit Capacity 18,500 LITRES.
- **❖** FUEL TANKER 4000 LITRES.

ON SITE BLASTING TRUCKS.

- ❖ 3 Units CAPACITY 10 -12 TONS (6x6)
- 1 Unit Capacity 10 TONS
- ❖ 5 Units Capacity 5 TONS (4x4)
- 2 Units Capacity 3.5 TONS

EQUIPMENTS FOR IN FACTORY /SITE OPERATIONS.

- **❖ FORKLIFT AND TELEHANDLERS 5 UNITS**
- **❖ TRUCK WITH CRANE 1 UNIT**
- ❖ TRACTORS 3 UNITS (Fire Breaks and road construction).
- GENERATORS / COMPRESSORS 10UNITS
- ***** 2 FIRE FIGHTING UNITS

CONTACT

US



OUR CAPACITY

VEHICLES FOR OPERATIONS AND BLASTING CREW AND SUPPORT AND ESCORTING

- ❖ D/CABIN /SUPER CABS 20 UNITS.
- ❖ STAFF BUS 4 UNITS.
- **SECORTS VEHICLES 4 UNITS.**
- One Ton pick-ups (4x4) 3 UNITS.
- ❖ SUV (4X4) 4 UNIT.
- ❖ Small SUV- 2 UNITS.
- **❖** AMBULANCE 1 UNIT.



CONTACT

US

OUR CAPACITY





NANYALA-MBOZI MAGAZINE





MIRERANI-SIMANJIRO MAGAZINE





MAKOMBE-LUGOBA MAGAZINE

CONTACT US



Email: info@nitroexplosives.com

BLASTING

BLASTING MATERIAL AND BLASTING SERVICES

COMMERCIAL EXPLOSIVES IN OUR MAGAZINES.

- Packed Explosives: Cartridges and Pentolite boosters. (including Seismic)
- ❖ All Detonator Assemblies: include I.E.D, all Dual Det downlines, Surface Delays (Shock Tubes) cord delays (dog bones), blasting wire, safety fuse, igniter cords.
- Detonating Cord
- Porous Prill Ammonium Nitrate.
- ❖ ANFO 25kg bags.
- Bulk Emulsion (Hydromite): Pumpable Emulsion and Emulsion Blend.

BLASTING SERVICES

- Surface Blasting.
 - a) Surface Blasting in quarry mines.
 - b) Surface blasting in gold mines.
 - c) Surface blasting in diamond mines.
 - d) Surface blasting in coal mines.
 - e) Surface blasting in infrastructure projects.
 - f) Non- Explosives blasting for sensitives areas.
- Underground blasting.
- Tunnel blasting.

CONTACT

US



BLASTING SOFTWARE

Trial for One Month Or Buy the Licence with Us

Design, Analyze and Visualise surface and Underground blasting with our Software



CONTACT US:



Call Centre: +255 684 700 004 / 0272 548 576

BLAST

INSIGHT

SOFTWARE

SAFE BLASTING FOR SURROUNDING STRUCTURE AND COMMUNITIES.

- We monitor seismic vibration during blasting as it important for constructions as it helps to ensure the safety of surrounding structures and communities.
- The use of specialized equipment helps to minimize the potential for damage and ensure a safe and successful operation.



SEISMIC MONITORING WHEN BLASTING

CONTACT US



Email: info@nitroexplosives.com

BLASTING WITH EMULSION

- Emulsion blasting offers our company a safe and efficient alternative to ANFO blasting. (Wet Conditions)
- The results of blasting with emulsion as shown on the image below can include an improved fragmentation and overall reduction of excavation costs, as well as a reduced environmental impact

Effective Fragmentation done by Nitro Explosives
With Emulsion



CONTACT US



Email: info@nitroexplosives.com

NITRO EXPLOSIVES PLANT (EDEN)



EMULSION PLANT





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SAFETY, HEALTH AND ENVIRONMENT

"Safety is our First Priority"

- Nitro takes the health and safety of our people, stakeholders and the environment very seriously. Our top priority is our commitment to the safety and health of our people, customers, and society in general by keeping our operations and products safe and secure.
- We pride ourselves on a Company Culture that centers and cultivates character development, education, accident prevention and compliance with our SHE Management System.
- ❖ We see every person in every aspect of our business as a valued member of our family where everyone looks out for their brothers and sisters.
- In line with our vision to become the best supplier of commercial and seismic explosives in East and Central Africa, we are committed to complying with and surpassing national and international standards inhealth and safety.
- We support and encourage practices that enable all personnel to perform SHE heroic actions while fulfilling national, international and customer requirements.



SAFETY, HEALTH AND ENVIRONMENT

"Safety is our First Priority"

❖ We maintain a relentless focus on zero harm, accidents, and/or incidents. Our safety mission is for every employee to leave work at the end of the day and enjoy their time with their family and friends at home...every day.



MMU TEAM IN FULL PPE

❖ We also encourage our employees to implement FULL PPE in workplaces for safety as it is important for protecting them from potentials hazards and reducing the risk of accidents and injuries.

CONTACT US



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SAFETY, HEALTH AND ENVIRONMENT

Safety is central to all activities across our business."

- ❖ Safety for our customers, team members, and communities is a mission-critical focus for our team. We approach safety with a proactive mindset and the belief that through adequate planning and proper execution: all operating exposures can be safeguarded, and all accidents can be prevented.
- Our Safety, Health and Environment Policy affirm our aspiration to avoid harm, empower our people to perform their tasks safely and responsibly, and continuously improve our performance. We are focused on identifying potential hazards and risks before they take place and then taking steps to eliminate them.
- ❖ To guide our people in workplace health and safety, we have a strict and comprehensive set of standards and procedures which form our Safety, Health, and Environmental Management System, built on a strong foundation of leadership and competency. These documents/protocols specify the requirements and controls that must be in place to protect our people, customers, and communities.

"Our safety culture is aligned with our core values of care and service"

- Thanks to our rigorous training programs, focus on preventative maintenance, and stop-work protocols, we have been able to install a safety-centric culture across the entire Nitro family, our fleet, workshops, magazines, plants and blasting sites.
- ❖ We strive to ensure that all our customers are aligned with similar missions and regard for safety.

CONTACT US



Email: info@nitroexplosives.com

HEALTH & WELL-BEING

- ❖ In line with our actions to ensure safety, we pride ourselves in caring for and ensuring the health and well-being of our people by minimizing the potential for adverse health impacts associated with our operations.
 - ❖ We ensure all our fleet, facilities, and workplaces meet all basic and statutory requirements for maintaining health and welfare for growth.
 - ❖ Each of our employees and their families is insured with a healthcare plan with access to hospitals all over the country.
 - We support and encourage positive and healthy lifestyles to our personnel through corporate actions in workflows and schedules.
 - We continually promote health and well-being in our operations through awareness raising on all workplace health-related aspects.
 - ❖ We encourage all our employees on the involvement in sports and games to enhance physical and mental well-being.
 - ❖ We maintain a diverse, non-discriminatory, and safe work environment for everyone to ensure healthy workplace interactions and positive mental health.
 - We continually strive to ensure a family-centric workplace with a focus and support on cultivating positive interactions for mental well-being.

HEALTH & WELL-BEING

We are committed to safety and well-being of our employees and customers, by ensuring they have access to prompt medical care in case of emergency.



NITRO EXPLOSIVES AMBULANCE

"Values and Cultural Diversity"

Ethics, Humanity, Morals, Unity, and respect on the opinions, values, and beliefs of our employees, our customers, and the communities around us.

CONTACT US



Email: info@nitroexplosives.com

ENVIRONMENT & HEALTH

• We also preserve and conserve different types of vegetations and trees for overall health and environmental sustainability.



VEGETABLE GARDEN AND BANANA PLANTS



ENVIRONMENT & HEALTH

• We also preserve and conserve different types of vegetations and trees for overall health and environmental sustainability.



YOUNG TOMATO PLANTS



YOUNG SPINACH PLANTS

ENVIRONMENT & SAFETY

- ❖ Following the commitment to the SHE policy in this period where we are faced with the defining challenge of climate change, Nitro is aligned with the National Environmental Management Council in the implementation of the National Environmental Policy and Action Plan.
- Through continual improvement,
- We understand that achieving our mission and vision requires integrated environmentally and socially sustainable decisions and actions at all company levels.
- We have intensified our commitment to this cause through our updated and newly developed roadmaps, targets, and ambition for the short, medium, and long term with a focus on;
- Minimal pollution and disturbance from ambient conditions.
- > Transparency, Community Engagement and Participation.

"Environmental and Social Risk Management"

- Risk communication, awareness raising and perception management.
- Temporary blast zone evacuation
- Monitoring of blast-induced noise and seismic response
- Structural response monitoring (Pre & Post Blast Monitoring)
- Community Grievance Mechanism

"Social & Community Engagement"

- Identification of vulnerable social groups, sensitive structures and receptors.
- Community perception and management.
- Community feedback on performance and conduct.

CONTACT US



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NITRO EXPLOSIVES PROJECTS

Our company is a dynamic and innovative organization that provides high-quality products and services to our customers. We have a strong focus on customer satisfaction, and we are committed to deliver results that exceed expectations.

Our Projects designed to drive growth, innovation and competition, such as:

- **❖** SGR LOT 1 (DAR ES SALAAM-MOROGORO).
- **❖** SGR LOT 2 (MOROGORO-MAKUTUPORA).
- ❖ RUFIJI HYDROELECTRIC POWER.



US

DISTRIBUTOR OF



As a distributor for HARLEN Company, the leading supplier of rock breaking technology to the mining and construction industry, Owing to that NITRO EXPLOSIVES we are dedicated in offering our valued customer with a wide range of products that are carefully selected and tested to ensure that we bring best solutions on the market.

CONSTRUCTION CONSUMABLES

- Nexpand Rock Breaking Chemical.
- Hava Rock Drill- Dry Machine.
- Hava Rock Drill- Wet Machine.
- ❖ 360 Gram In-line Oil Lubricator.
- Claw Couplings.
- Safety Slings.
- ❖ 25mm Blue Line Air Hose.
- Pavement Breaker.
- Chisel Moil.
- Pointed Moil.
- Assorted Moils.
- Handheld Drill Steel.
- 32-40mm Knock Off Drill Bits In 11 Deg Taper

FOR MORE INFO

Website: https://www.harlenquarrysupplies.co.za/

Email: info@harlenquarrysupplies.co.za

Call Centre: 010 442 1773



* As a distributor for VIBRAQUIPO specialized in equipment's for vibration measurements, Owing to that NITRO EXPLOSIVES we have access to the latest and greatest products that gives our customer with the best options for their needs.

VIBRATION MEASUREMENT EQUIPMENTS

- Seismograph devices.
 - a) Vibracord Tellus.
 - b) Vibracord Gaia
 - c) Vibracord FX
- Shot Exploders.
- Ohm meters.

FOR MORE INFO

Website: www.vibraquipo.com

Call Centre: +34 986 86 02 72

DISTRIBUTOR OF



❖ As a distributor for MEKA which is mostly focused on manufacturing of concrete plants and crushing & screening equipment's.

FOR AGGREGATES, MINING AND RECYCLING INDUSTRIES

NITRO EXPLOSIVES can bring you a wide range of feeders, crushers, screens and washing systems that can be designed as a full complete stationary or mobile solution/complex according to the location, type of rock and individual preferences of the customer.

FOR READY-MIX CONCRETE, CONSTRUCTION AND PRECAST INDUSTRIES

❖ NITRO EXPLOSIVES can also provide high quality concrete with high precision. Mobile, Compact and Stationary MEKA Concrete Plants are a perfect match for Ready-Mix Concrete, Precast Applications, Road Concrete, RCC (Roller Compacted Concrete) and Fiber Reinforced Concrete.

FOR MORE INFO

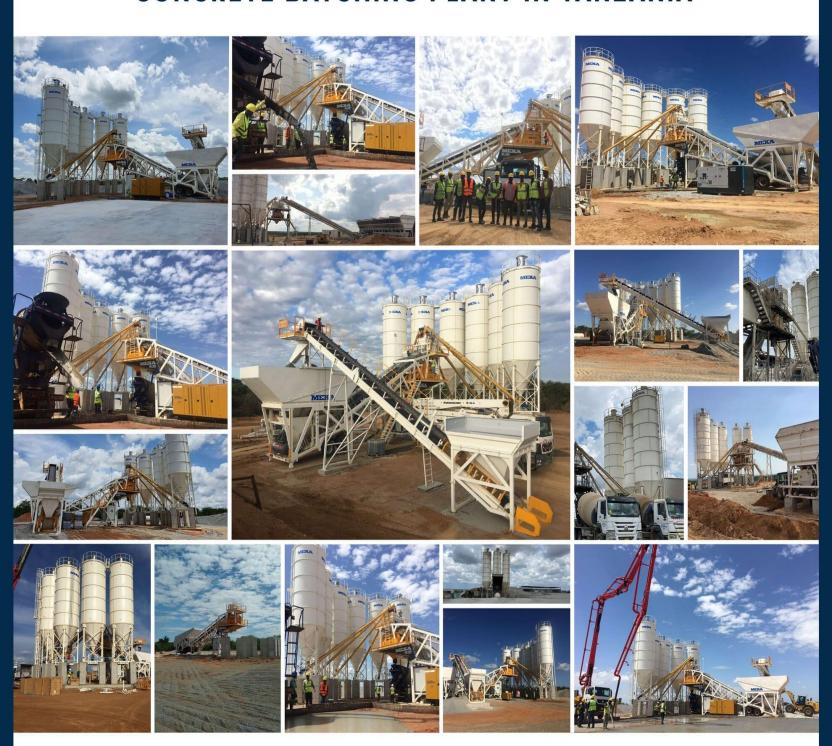
Website: www.mekaglobal.com

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DISTRIBUTOR OF



CONCRETE BATCHING PLANT IN TANZANIA



FOR MORE INFO



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