KHATO CIVILS

Company Profile 2024/25

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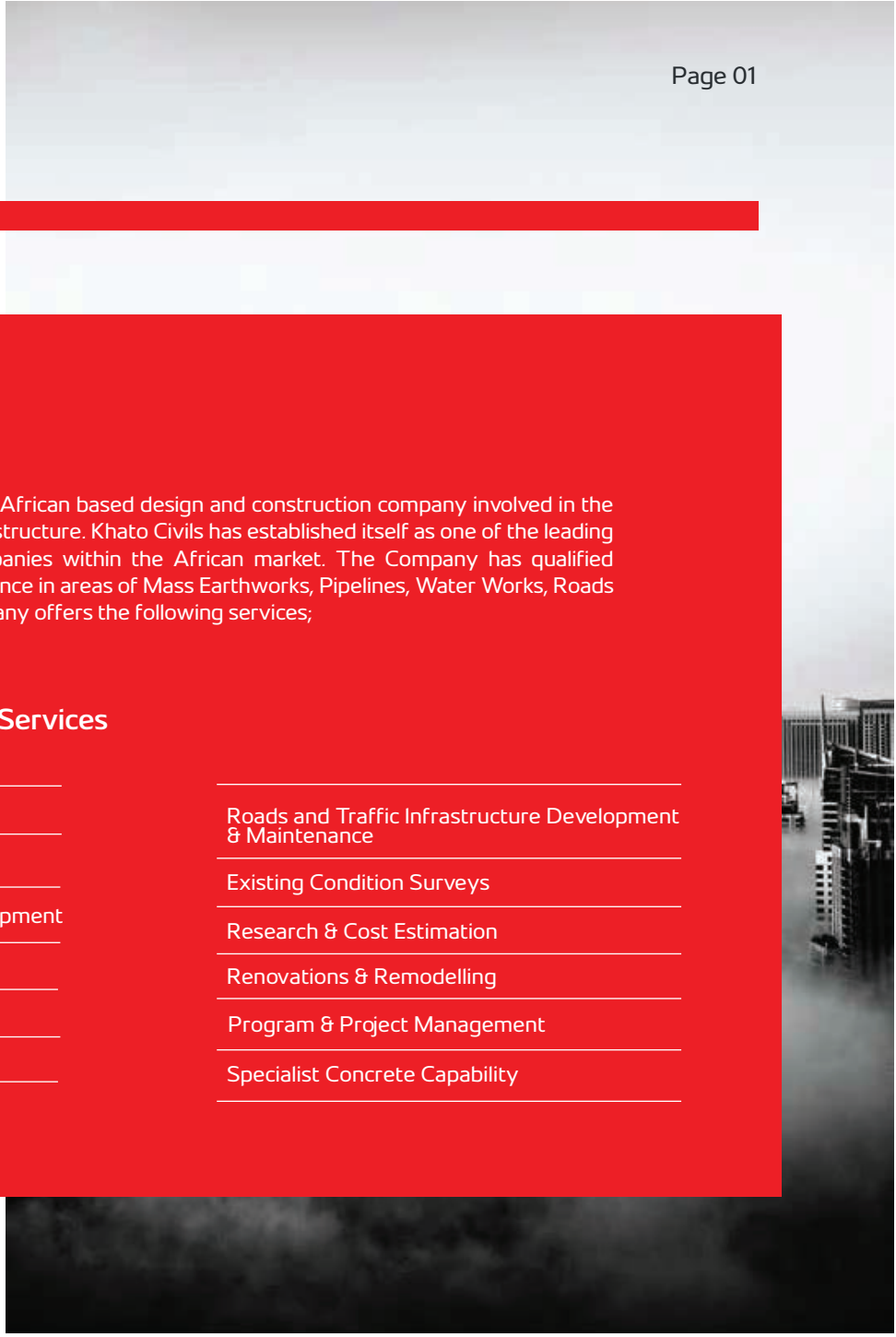
Introduction

Khato Civils (Pty) Ltd is a South African based design and construction company involved in the development of large scale infrastructure. Khato Civils has established itself as one of the leading black owned construction companies within the African market. The Company has qualified professionals with broad experience in areas of Mass Earthworks, Pipelines, Water Works, Roads and Concrete Works. The Company offers the following services;

Pre-Construction Services

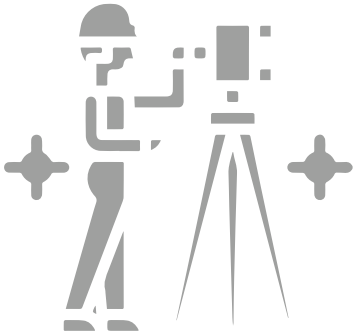
- General Contracting
- Construction Program Management
- Human & Commercial Settlement Development
- Major Pipework
- Mass Earthworks
- Pipe Jacking
- Roads and Traffic Infrastructure Development & Maintenance
- Existing Condition Surveys
- Research & Cost Estimation
- Renovations & Remodelling
- Program & Project Management
- Specialist Concrete Capability



Compliance

We comply with regulatory and statutory requirements including the following:

- CIDB Rating OF 9GB 9CE PE 9ME 9EP and 1EB with **CRS 157464**
- Registered with the National Home Builders Registration Council **NHBRC, Registration Number 172802620**
- ISO 9001:2015 **Certification**
- **BBEEE LEVEL 2**
- **NCIC** (Unlimited Civil) Malawi
- **PPADB -** Botswana



Khato Civils has developed a management strategy that enables the following:

- Improved project value through knowledge management
- Continuous improvement through lessons learned
- Resource efficiency optimisation
- Systems thinking

Our Vision

To expand our current market-share in the infrastructure development industry; by owning and operating vital components of the construction industry supply chain in a profitable, growth oriented manner.

Our Mission

To execute strategic infrastructure development projects in order to contribute to the upliftment and development of the communities we serve.

Our Values

1. Service oriented approach. Providing our clients, colleagues and partners with the necessary support to achieve our collective goals,teamwork through a combined effort and co-operation we will achieve more than we could as individuals, relying on the combined talents and strengths of the team. Respect for our clients, our colleagues and communities which we operate in and their diversity as well as the environment.
2. Integrity in all aspects of our operations demonstrating honesty, transparency and accountability.
3. Value addition in all activities we undertake in ensuring quality of delivery and performance to the satisfaction of internal and external clients. Excellence will remain the benchmark to which we will measure our performance within each Business Unit, Department and Project.

Transformation

Our Philosophy

We strive to establish long term relationships with our clients, built on trust whilst focusing on enhancing productivity, and efficiency. We are committed to our Social Investment program with the main focus on assisting small businesses run by women and the youth. Recognising the fact that we operate in a global village and in an ever changing and dynamic built environment, the Company has adopted a strategy to ensure alliances and partnerships with local companies of excellent reputation. This ensures skills transfer to local communities.

Our Partnerships

On-going changes in the growth and development of the Company are geared to ensure that we take maximum advantage of opportunities in the market place. We have seen a definite shift in industry trends with a move away from traditional public sector work towards Private Public Partnerships (PPPs). This comes about as a realization that governments worldwide can no longer be expected to carry the burden of infrastructure development alone given the many competing socio-political priorities. As a Company we have realised this and we are in a position to participate in PPP opportunities, within South Africa and the African continent.

SOUTH ZAMBEZI

Joint Venture with **South Zambezi Engineering Services**

This business Joint Venture was established in 2010. It is our pride and marks a huge milestone for both parties – South Zambezi Engineering Services (Pty) Ltd and Khato Civils (Pty) Ltd . This Joint Venture improves the efficiency and the effectiveness of both companies and serves as a great boost of business operations for both companies in question. Khato Civils has a CIDB level 9 rating. This qualifies the company to execute Mega Capital projects.

The relationship between the two companies gives South Zambezi Engineering Services exposure to Mega Capital projects, an experience that we will not trade for anything else. The joint venture permits South Zambezi Engineering Services (Pty) Ltd to play an instrumental role in Engineer, Procure and Construct projects (EPC). Our main responsibility is to deliver the Engineering aspect of the project and be involved in the procurement process. South Zambezi Engineering Services (Pty) Ltd also oversees various aspects of the project's implementation, as supervising engineers, quality control managers and monitoring consultants.

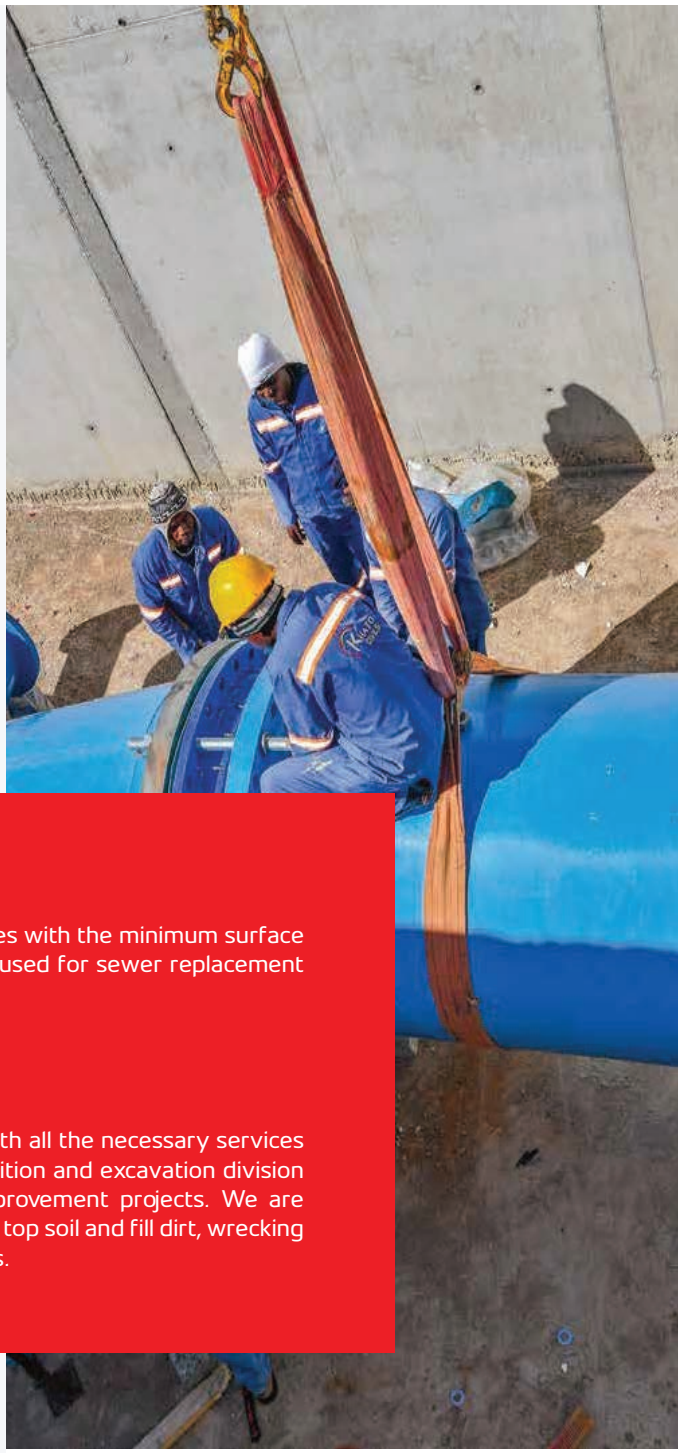
We are in this Joint Venture for the long haul. We will serve it with pride and dignity adding value all the way. We will use this initiative to further develop our already existing legacy of being a leader in the engineering and project management space. South Zambezi is a true success contributor to Khato Civils in this regard. By producing engineering designs, often in, half the required time, South Zambezi Engineering Services (Pty) Ltd plays a significant role in Khato Civils' ability to complete projects within schedule.

Health, Safety & **Environmental**

Emphasis is placed on health and safety processes to ensure a safer workplace for our staff.

Training & **Education**

Khato Civils has set-up a special education fund for employees. The fund finances previously disadvantaged individuals working for the company to embark on further training to up skill and enhance their productivity.



Expertise

Pipe Jacking

A specialist tunneling method for installing underground pipelines with the minimum surface disruption. Primarily used for new sewer construction it is also used for sewer replacement and relining, water mains and pipelines installations.

Mass Earthworks

Khato Civils has the expertise and capacity to provide clients with all the necessary services needed to prepare a site before actual construction. Our demolition and excavation division use heavy equipment to perform earth moving and land improvement projects. We are equipped to do site grading, ditching, drainage, land clearing, add top soil and fill dirt, wrecking and demolition for residential, commercial, and industrial projects.

Existing Conditions Survey

We have qualified personnel who will assist the consulting engineers and clients to survey the conditions of the site and recommend measures which must be taken into consideration before actual construction. This service is intended to assist clients avoid complicated pitfalls which have the potential of delaying the project and causing financial losses for clients.

Building

Khato Civils has CIDB rating of 9CE 9GB which has been achieved through delivery of major projects built by an experienced professional team that adheres to the highest building standards. The complexity of the modern building process demands qualified professionals with special abilities to analyse, clearly identify challenges and provide solutions as the project develops.

- Bulk Sewer Lines and Water Reticulation Systems
- Large Scale Residential and Commercial Developments
- Bridges, Waste Water Treatment Plants, Water Treatment Plants and Dams
- High Rise and Multi Storey Buildings.

Specialist Concrete Capability

Khato Civils has extensive experience in specialised placing of structural concrete for intricate and sophisticated designs. This is a key aspect in the successful construction of any major structure of which concrete is a crucial design element. In many major projects where concrete is the major structural element, safety and quality are paramount for the long term use of that structure.

Renovations & Remodelling

Khato Civils understands the complexities that accompany the renovation or remodelling of major infrastructure. Our team of professionals has the necessary skills to guide and assist clients on any major renovation requiring services of a general contractor. This also extends to any maintenance works that may be required.

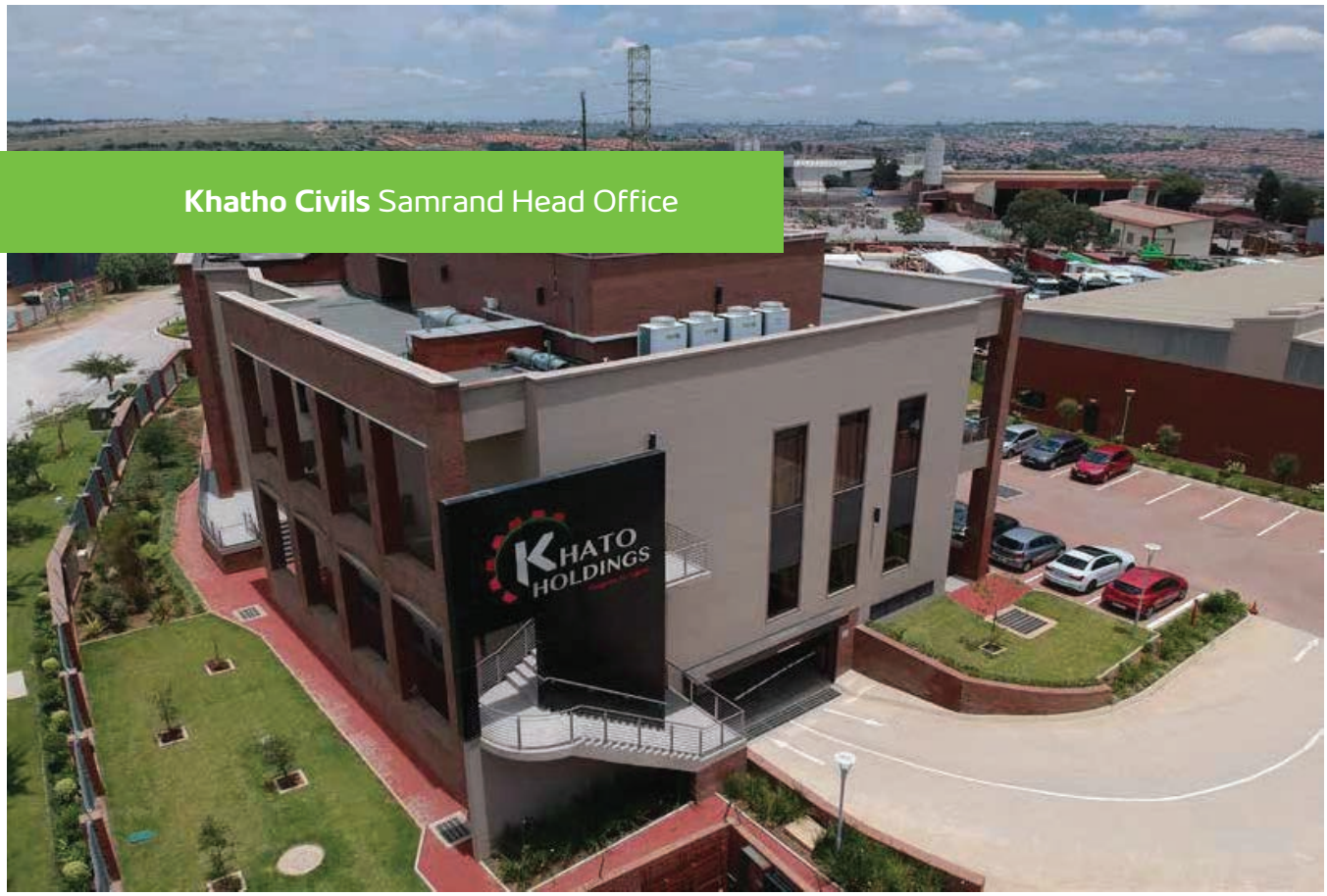
Heavy Reinforced Water Retaining Structure

Khato Civils provides research and estimation services through a platform that delivers accurate estimating, import and question-based estimating tools. Khato Civils research and estimation services provides Clients with a realistic guide on project cost.

Program Management

At Khato Civils, we always aim to create a close partnership with the client during the early development stage of their project, so we can fully understand the scope of the project beyond the construction phase. This type of project delivery method, generally results in expeditious schedules, lower costs of design and construction, and less contractor-initiated change requests due to document design errors and omissions. Through a rich success history, Khato Civils has provided construction management services and demonstrated an understanding of client's goals and needs. We have clear policies on program management service which guide:

- Responsible project team management
- Prudent selection of qualified subcontractors and suppliers
- Mechanism for owner / architect approval of materials, colours, and systems
- Communications liaison linking client, designers, lenders, and inspectors
- Cost and schedule controls
- Quality control
- Safety management
- Site inspections
- Record keeping
- Post-construction services: Maintenance



Khatho Civils Samrand Head Office

The Management of Khato Holdings places a strong emphasis in growing the Group's Asset base, be it real-estate, fleet or heavy plant equipment. In 2016, all associated entities of Khato Holdings including Khato Civils moved to new A-Grade offices which also house the Head Offices of Khato Holdings. The design and project management of the construction of these new offices was carried out by South Zambezi (Pty) Ltd. South Zambezi is the Engineering arm and one of the associated entities of Khato Holdings. The construction was entrusted to Khato Civils. Also housed in the Khato Holdings office park is fully fledged warehouses. The warehouses are used to store machinery, building supplies and a fully equipped workshop. The workshop has all the necessary tools and skilled personnel to perform major repairs on the Company's fleet and heavy plant equipment. Khato Civils has a professional mobile team to support different teams in various geographic locations to ensure that downtime is minimised.

- Structures & Road Design
- Road & Highway Construction
- Surface Dressing
- Asphalt and concrete paving
- Pothole Patching
- General Road and Highway Maintenance
- Road Marking & Signs

Expertise: Mining

Slime or tailing dams usually make headline News only when they fail or result in the loss of life and catastrophic environmental damage. Subsequently, the proper design, management, construction and monitoring thereof are vital. Khato Civils designs and constructs stable, cost effective and legislation compliant surface facilities. Our design and construction philosophy aims to provide clients peace of mind and freedom from costly surprises resulting from instability, fluid discharges or dust emissions.

Legislation requires that mine residue deposits, tailings storage facilities, tailing deposits or slimes dams be managed over their entire life cycle by appropriately qualified people, so that it does not pose an unreasonable risk to the public and environment. This includes the controlled seepage from the tailings facilities and containing hazardous materials, such as cyanide, from

Deposition

The design and operation of a tailing storage facility depend on the mode of the deposition select ed. The modes vary from conventional deposition of relatively low density tailings, to paste depo sition of high density tailings. Khato Civils is capable and has capacity to execute both modes.

Our key success factors are; our quest to understand the properties of the slurry, notably the clay mineral content and process water quality and the dewatering and rheological behaviour of the tailings. The outcome of our tests provides input upon which the geotechnical engineers are able to provide secure construction and operational design.

Monitoring

Khato Clvils uses drones, to monitor slimes dams remotely. Ground monitoring methods include Contractometers and Extensometers to monitor the dam wall behaviour and slopes. Hydrology sensors are used to measure fluid levels.

Maintenance

Khato Civils maintenance plan for slimes dams includes keeping the storage facility's pipes and water reclamation systems in repair, monitoring water levels in the embankment's fill and foundation, to ensure it meets safety requirements, and monitoring for demolitions within the structure itself. Movement within the structure itself is monitored by survey pins and instruments. Annually, the dam capacity is raised to keep up with mine production.

Our designs often include diversion channels to keep surface run-off water out, preventing any water that could potentially go in from being contaminated by metal, sulphides, or other deleterious minerals and elements as well as processing chemicals. Khato Civils is always mindful of industry failures in tailings facilities which occur due to rotational sliding, foundation failure, overtopping, erosion, piping and liquefaction. The prevention of these failures are top of mind in our design and construction process.

M1 Double Dekke Bridge Resurfacing

Project Portfolio

ROADS | M1 Double Decker Bridge

In December 2017, the Johannesburg Road Agency (JRA) awarded Khato Civils a contract to repair and upgrade the M1 double Decker Bridge. The project scope covered both carriage ways of the double decker bridge between Carr street and the Crown interchange on the M1 motorway in Johannesburg. The project commenced on the 5th February 2018 and was completed on the 13th December 2019. The following work was completed on this project:

A1 Road Construction

A1 main road to Mmamashia Water Treatment Plant road construction A 2km road construction project commenced on the 15th October 2021 and was technically completed on 11th January 2022. As part of the associated works for the Mmamashia Water Treatment Plant project, the Water Utilities Corporation of Botswana awarded the Khato Civils/South Zambezi JV a contract to relay the worn-out 2km stretch of road linking the Mmamashia Water Treatment plant to the A1 main road at the Oodi junction in Gaborone, Botswana. The road was old and dilapidated. The road level was raised by 480mm with three 150mm layers and 30mm Asphalt. The road was primed, Asphalt paving was applied and concrete kerbs were installed on either side of the road.

Water

Botswana Water Utilities Corporation

Khato Civils / NTR Technology Holdings JV (KCNTRJV) was appointed on an EPC basis by the Water Utilities Corporation (WUC) of Botswana on 16 February 2018, for the refurbishment of Pump Stations PS1.1 and PS2.1 located on the North-South Carrier 1 pipeline. The Contracts ran simultaneously and were be completed within 15 months thus ending on 12 August 2019.
The objective was to upgrade and refurbish the Pump stations so that they provide required water outputs to BPT1A1 and BPT2A1, respectively.
Pump station PS1.1 is situated at Letsibogo dam, while Pump Station PS2.1 is situated approximately 32.6km downstream from Letsibogo dam, at Moralane, together with Break Pressure Tank 1 (BPT1A1).
The scope of works covers general requirements for assessment, supply, delivery and installation of Mechanical, Civil, Electrical, Control Equipment, Instrumentation Equipment, Actuators, Associated Accessories, and documentation (drawings and manuals).
This project covers all equipment in the Pump Stations, including modification of the suction and delivery pipe work and construction of a building to house Variable Speed drive units.

Botswana's 100km Pipelie Project

The Khato Civils/South Zambezi/Evolution Engineering JV (KCSZEEJV) was appointed by the Water Utilities Corporation (WUC) inBotswana to design and construct a Transmission Water Pipeline of approximately 100 km from Masama Well fields to Mmamashia Water Treatment Plant in Gaborone, to convey 64Ml/day of Borehole water abstracted from both Masama East and West Wellfields. The pipeline comprises a 1.15km x 700mm nominal diameter and 81.9km x 1000mm nominal diameter Spigot & Socketed Mild (Low Carbon) Steel Pipes. The pipeline's objective is to augment water demand in water stressed areas within the Greater Gaborone corridor, including Lobatse/ Barolong, Thamaga/ Moshupa/Kanye, Molepolole, Mochudi/Bokaa catchment areas. This emergency project commenced on May 2020 and the pipeline was commissionedon the 15th October 2021, by his excellency President Mokgweetsi Masisi.

Two site camps were established early and human capital was sourced from local communities with the help of local leaders. An addition to the 4 trenchers, 8 additional excavators were procured for this project. Ordinarily, a project of this magnitude would take over two years to complete. Despite logistical and health challenges presented by COVID-19, Khato Civils completed the emergency water project in record time. Water is being delivered to multiple communities in desperate need, through this pipeline. In addition to laying steel pipes, the project included the following: Building 37 Scour valves, 9 Swabbing Chambers, a Feeder tank Control Chamber, an Inlet Tower, 2 offtake chambers, a flow meter chamber, an injection chamber, an access chamber, a feeder tank scour chamber and 65 air valves. The project was a resounding success and was delivered within budget and proected time frame..

Mmamashia Water Treatment Plant

The Khato Civils/South Zambezi Joint Venture has been awarded contract to Design, Supply, Install, Construct and Commission the Mmamashia Water Treatment Plant, by the Water Utilities Corporation of Botswana. The initiative aims to build and increase current plant capacity, to handle maximum flows which will be provided by the North South Carrier Pipelines. The plant will treat a maximum of 110 mega litres of raw water per day. This project is near completion

Project scope

- Critically examine the maximum water flows and associated pressures. Base the design on the pumping duration of 20 hours per day.
- The Water Treatment Plant should withstand future pressures at the delay tower point when future pump station PS4.2 is in place and running.
- Survey and make necessary installations to all the sites, for the routes of electricity, cathodic protection and lightning protection.
- Estimate power requirements for the whole project.

Our Tesmec Trenchers

Tesmec trenchers are the flagship of Khato Equipment's R1.7 billion plant and equipment fleet. The fleet comprises of the following models: three 1150, three 1475 and two 1675. One trencher can trench a distance that would take 20 excavators to trench in one day. These state-of-the-art machines dig trenches to specifications, while clearing the soil from the trenches in a measured manner. They grind rocks down into powder in seconds, reducing blasting costs and increasing effectiveness. The Tesmec 1475 chainsaw Trencher is a high-performance rock trencher for medium to big size pipelines. This 630 hp powered machine can dig trenches for big diameter pipes up to 488 cm deep, in tough conditions. The Tesmec 1150 chainsaw trencher for midsize pipelines can dig up to 366cm deep and up to 107cm wide, making it the ideal trencher formid-size pipelines and under-ground utilities.

The Tesmec 1675 chainsaw trencher is one the biggest Tesmec trenchers available in the market. It was designed for big diameter pipelines and deep trenching works – sewage, water and drainage networks. Equipped with a 760 hp engine, the 1675 can dig trenches up to 732 cm deep and 183 cm wide. This trencher model can be adapted to work both double chain and triple chain boom. All the above trenchers combine high chain pull and low chain speed. This guarantees the best performance on hard and abrasive rocks, significantly increasing their productivity.

Polokwane Waste Water Treatment Plant

Construction of 1 500mm diametre outfall sewers to the Polokwane regional waste water treatment works. Population expansion in Polokwane has resulted in a need to construct outfall sewers to the regional treatment works. This is a construction of outfall sewer pipelines from the existing Seshego and Polokwane Wastewater Treatment Works (WWTW) to the site of the new Polokwane Regional WWTW to the north-east of Polokwane. The works facilitate an increase in the treatment capacity of the Polokwane Municipality and also allow for further developments in the area. The project has been divided into three contracts, with the last section from the confluence of the pipeline from Seshego and Polokwane west with the Polokwane east pipeline up to the site of the planned regional WWTW being.

In February 2018, Khato Civils was awarded part of the works. The scope involves the laying of 3.2 km of class 100D concrete pipes with a diameter of 1.5 m, including various drop structures and manholes. The concrete pipes will be lined with a HDPE liner. The scope also includes the re-alignment of a section of gravel farm road and construction of a box culvert structure. Part of the pipeline crosses private agricultural land under irrigation, with the majority of it being on undeveloped municipal land.

Giyani Water & Sanitation Revitalization Programme

Khato Civils with South Zambezi and LTE Consulting were appointed by Lepelle Northern Water on an engineering, procurement, and construction (EPC) basis for the Mopani District Municipality Water and Sanitation Revitalization Programme. The Programme was required to address the short term water and sanitation challenges in the Greater Giyani Local Municipality as well as provide medium and long term solutions to the water and sanitation challenges within the Mopani District Municipality. Mopani District Municipality is a Category C municipality located in the north-eastern portion of the Limpopo Province and consists of the following local municipalities:

1. Ba- Phalaborwa Municipality
2. Maruleng Local Municipality
3. Greater Tzaneen Municipality
4. Greater Giyanil Municipality
5. Greater Letaba Municipality

The main towns within the district are the Tzaneen, Giyani, Modjadjiskloof, Hoedspruit and Phalaborwa. The Mopani District municipality is situated in the North-eastern part of the Limpopo Province, 70 km from Polokwane (main City of the Limpopo Province).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Giyani Water & Sanitation Revitalisation Programme

It is bordered in the east by Mozambique, in the north, by Zimbabwe and Vhembe District Municipality, in the south, by Mpumalanga province through Ehlanzeni District Municipality and, to the west, by Capricorn District Municipality and, in the south-west, by Sekhukhune District Municipality. The district has been named Mopani because of abundance of nutritional Mopani worms found in the area. The district spans a total area of 2 242 183 ha (22 421.83km^2), with 15 urban areas (towns and townships), 325 villages (rural settlements) and a total of 106 wards.

The Mopani District, by virtue of the Kruger National Park as a District Management Area, is part of the Great Limpopo Transfrontier Park, the park that combines South Africa, Mozambique and Zimbabwe. The Mopani District Municipality Water & Sanitation Revitalization Programme consisted of the following projects:

- Giyani Groundwater Augmentation
- Giyani Water Treatment Works Expansion & Refurbishment
- Giyani Wastewater Treatment Works Revitalization
- Nandoni Dam – Nsami Dam Raw Water Bulk Pipeline
- Middle Letaba Dam – Nsami Dam Canal
- Mametja Sekororo Water Treatment Works
- Bambanani Raw Water Bulk Pipeline

Scope of Emergency works in Giyani

In the first phase of the Giyani project, Khato Civils was appointed to revitalize existing services in and around the greater Giyani area through the repair of all leaking bulk pipelines and replacing of all faulty ATR valves. 345 kilometres of bulk pipelines were laid. The company overhauled the existing Booster Pump-stations and Sewer Pump-stations on the pipeline. Khato Civils has revitalized all the old plumbing at the Nkhensani Hospital as well as install a new Water Conditioning Plant to purify the hospital borehole water. The Company rejuvenate the old non-operational waste water treatment plant by;

- Installing a new head of works
- Repairing the pump-station
- Repairing the BIO Filter
- Fixing the Primary and Secondary primary clarifiers
- Installing a 1500 mega-litre packaged plant
- Revitalising old drying beds with new beds and chlorination ponds.

Lake Malawi Supply Project

As one of the region's leading Construction Companies, Khato Civils, in conjunction with South Zambezi (Consulting Engineers) has been appointed to undertake one of Malawi's mega water supply projects, namely the Lake Malawi Water Supply Project also known as Project Rhino. The project will pump and deliver 100 million litres per day of portable water from Lake Malawi to Lilongwe City through 1200 mm diameter Mild Steel Pipes ; Lined (DICL) pipe, alleviating problems that have affected the lifestyle and livelihoods of the city's 2 million plus residents and its surroundings. Valued at about $500 million, it is billed as Africa's largest water transfer project under construction so far.

The primary design and construction components that will be included in the portable water supply system will comprise of:

- Intake of Raw Water abstraction from Lake Malawi, The Intake Structure will be at least 500M
- Intake Pumps for Raw Water capacity of 100 000 m3/d with 800mm, 2km Transmission Pipelines.
- Pressure Sand Filtration and clearwater tank of 4000m3
- Chlorination System for filtration
- Clear Water reservoir 800m3/d and booster pump station at Lifuwu Water Treatment Works
- Clear Water transmission pipeline of 1200mm diameter mild steel pipeline of 50kms from Lifuwu to Kanyenyeva
- Break Pressure Tanks of 8000m3/d and booster pump station at Katengeza
- Clear Water transmission pipeline of 1200mm diameter ductile iron pipeline of 14 km from Katengeza to Mvera
- Break Pressure Tanks of 8000m3/d and booster pump station at Mvera
- Clear Water transmission pipeline of 1200mm diameter ductile iron pipeline of 12kms from Mvera to Dowa turn off.
- Clear Water transmission pipeline of 1200mm diameter ductile iron gravity pipeline from Dowa turn off to existing Kanengo reservoirs of 36kms
- Miscellaneous infrastructure for the above e.g. fences, guard rooms,acces roads, storm water, pump houses.

The Lake Malawi Water supply project was first conceptualized as a long-term and sustainable intervention to water problems that have been affecting the ever growing population of Lilongwe for over a decade now. Lilongwe, which is Malawi's largest City requires a stable water supply. The local water utility company, Lilongwe Water Board (LWB), has currently been forced to ration water supply to residences and public places on a continuous basis.

Primary components of the project include an intake tower with pumps and water treatment facilities right from the abstraction point in SengaBay- Salima to Lilongwe, a distance of 125 km. Water treatment will be done through pressure filters with an overall plant capacity of 4166 cubicmetres per hour. The filters will be twenty-two (22) horizontal air scoured pressure filters each with a capacity of 200 cubic metres per hour. Disinfection will be by means of gas chlorination.

Khato Civils will also build clear water tanks and pumping stations along the 125 km stretch, the first one at Lifuwu in Salima with a capacity of 2500 cubic metres. The treated water will then be conveyed from Lifuwu to Kanyenyeva, which is located 51 kilometres in the same district. At Kanyenyeva the water will be pumped to Dowa turnoff clear water tank, a distance of 21 km. From there the water will gravitate 37 km to Kanengo water tanks. It is from this stage that water will now be distributed through the existing Lilongwe Water Board's systems to the city's residents.

The residents in Salima and Dowa will also equally benefit- from access to potable water as they fall within the stretch of the project's catchment area. From another perspective the project will create in excess of 4000 jobs and a lot more spin-off opportunities for small and medium enterprises. The Khato Civils (Pty)-South Zambezi (Pty) Limited joint venture, was awarded the contract after the Office of the Director of Public Procurement (ODPP), used the restricted tendering procurement method under International Competitive Bidding. The consortium came ahead of six other reputable global companies from China, Portugal, South Africa, Italy and United Kingdom.

Hammanskraal (Extension 10) Water & Sewer

Rapid population growth in Tshwane, has driven the need for the installation of internal water and sewer reticulation. In June 2018, Khato Civils was appointed to do the works. The project consisted of the installation of a DN800 welded steel bulk water pipeline approximately 5,25 km long including cathodic protection, and a 600 mm diameter class 75D spigot and socket concrete pipe with sacrificial layer outfall sewer, approximately 3.41 km long with 45 manholes to serve Hammanskraal extension 10. Also included is the installation of different water and sewer reticulation pipelines and toilets structures for approximately 2767 stands in Hammanskraal West extension 10, that meets the demands of residents consumption.

Hammanskraal West Reserviour

Bulk water delivery pipeline from the Hammanskraal West reservoir to the reticulation of Hammanskraal ext 10. It will also serve several other future developments (Hammanskraal West ext 10.Temba CBD) excavation, welding and backfilling of 800mm diameter steel pipes over a distance of 5,25km with various ancillary items.

Outfall Sewer Mainline

Outfall sewer connecting the reticulation of Ext 10, as well as other future developments, with an existing 1200 dia. Outfall sewer to the Temba Waste Water Treatment Works. Excavation, laying and backfilling of 600mm diameter class 75D spigot and socket concrete pipe with sacrificial layer over a distance of 3,41km. Construction of 45 manholes for the new sewer outfall. The work also included three road crossing by means of pipe jacking.

Water Reticualtion

Water reticulation for 2 767 stands including house connections, meters and meter chambers, standpipes, fire hydrants and isolating valves. Excavation, laying and back filling of water pipes for new reticulation systems.

Sewer Reticualtion

Sewer reticulation for 2 767 stands including manholes, lampholes, and house connections. Excavation, laying and back filling of sewer pipes for new reticulation.

Toilet Structure

Construction of 2 767 top structures and the intallation of toilets and appurtenant fittings.

Hammanskraal Bulk Sewer Pipeline Phase 1

Khato Civils was appointed by the Department of Local Government & Housing to construct a new Bulk Sewer Pipe Line. The Construction of this bulk sewer line was intended to complement the existing sewer lines but mainly to service the new Western Phases of Hammanskraal. These phases included Hammanskraal Extension 2 to Extension 4. Khato Civils was also engaged on another project by the department to construct a sewer outfall for Hammanskraal Extension 2.

The 5 km pipeline starts on the boundary of Hammanskraal Extension 2 and discharges into the municipality's wastewater treatment works at Themba Babalegi. The pipeline has been designed to handle a peak flow rate of more than 600 litres per second, the diameter of the pipeline varies from 50 cm to almost 1.5 meters. The trenches were dug to a depth of 4 metres which required careful engineering ingenuity and strategically designed manhole structures. The pipeline trench excavation was done in accordance to the specifications as per SABS 1200 whilst the pipes were protected with suitable gabions/rheno mattress elements .

Hammanskraal Water & Sewer Reticulation

Khato Civils was appointed in September 2012 by the Tshwane Metropolitan Municipality to construct a water and sewer reticulation system for 2903 households in Hammanskraal Extension 2. The project was implemented through 3 phases. The project was envisaged to run until 2014. Khato Civils started work on the first phase which was completed by the end of March 2013. The project has was completed before projected time and within budget

Sweetwaters Water & Sewer Reticulation Project

Khato Civils has been engaged to provide water and sewer reticulation in Sweetwater's Kanana Park Extension 6.

The development has approximately 3500 stands that Khato Civils will have to connect to the water and sewer network. This project became a priority for the City of Johannesburg after an outcry from residents on lack of housing, lack of portable water, sewer systems and electricity, no security or social services, leaving the community feeling completely and utterly dejected. In 2014, Khato Civils was appointed to undertake construction. The Kanana Park housing development project is located on Portion 3 of the Farm Cyferfontein of some 147, 78 hectares owned by the Gauteng Provincial Government. Khato Civils undertook Phase 1 of the Project which was 1000 stands within the first 6 months. The aim was to complete the installation of all these services within an 18 months period. Khato Civils constructed +/-26000m of sewerlines and +/- 27000m of water supply lines. On completion of the water and sewer reticulation project, the City of Johannesburg commenced with development of RDP houses.

14000 People benefited from this development as it feeds RDP houses, Water and Sewer Reticulation have been completed. Khato Civils has extensive experience in the delivery of water and waste water services. We are fully familiar with municipal standards, regulations, expectations and modus operandi thereby enabling us to successfully co-ordinate our activities with the municipality and to provide assistance on any aspect within the water services sector. Our activities typically include management, operation and maintenance services for both water and sewage bulk treatment plants, including the main distribution, pumping systems, as well as water reticulation and waste water sewer networks and storage.

Lawley Water & Sewer Project

Water & sewer reticulation in Lawley EXT 3 in 2011 Khatho Civils was engaged by the Department of Local Government and Housing to connect 1713 low cost houses in Lawley extension 3 to a water and sewer reticulation network. This project is named PHASE 1, which is part of a broader plan by the department to provide residents of Lawley with decent and permanent accommodation as well as access to basic services of water and sanitation system. PHASE 2 of the project involved 1017 stands which Khatho Civils completed in record time of 8 months.

Construction of the network commenced in March 2011. All the works were completed in November 2012 and the completed project officially handed over to the department on behalf of the beneficiaries. As part of the housing development by the department in the area, Khatho Civils was engaged to also implement the reticulation network to ensure that all the houses in the planning area have access to clean running water sewer system. Khato Civils worked in conjuction with Bagale Consulting who were tasked to ensure that the consctruction programme was adhering to the project scope as well as to ensure that the water and sewer reticulation was constructed to the highest standards.

Nwamitwa Dam

Khato Civils and it's sister company South Zambezi were awarded a contract to conduct a feasibility study, detail design and procurement documentation for the new Nwamitwa Dam on Groot Letaba river, conduct a full investigation on the construction of the dam.

The dam was rated a large high-risk dam. The R529 and other roads needed to be realigned. An Upgrade to the Nkambako would also be investigated as well as bulkwater piping to villages with water shortages. The project involved the construction of the new Nwamitwa as well as raising of the Tzaneen Dam for the purpose of argumenting the water supply from the Groot Letaba River. Three Provincial roads were affected by the proposed dam, hence the need of the realignment of the roads . The realignment of gthe three roads, included the construction of four new bridges.

Corporate Social Responsibility

Impacting communities in which projects are implemented is deeply rooted in Khato Civils' corporate culture. Corporate Social Investment (CSI) is characterised by actively participating in improving lives. Initiatives including, but not limited to building houses for the less fortunate, providing furniture and renovating schools, clinics and police stations. For the 100km pipeline, a fully furnished 3-bedroomed house, with two additional outside rooms, was built for a needy family of 16 in Leshibitse Village, Botswana. Two COVID-19 isolation rooms were procured for a clinic and a school in Rasesa Village, fences were erected around 8 Kgotlanas in Artesia Village, and a library was electrified. In Saldanha, Khato Civils, along with its JV partner on the project, paid off more than 30 university students' historic debt; enabling them to continue with their studies. Middlepos primary, a school in a historically disadvantaged location was selected to be the beneficiary school for the Saldanha project in 2019. Two mobile classrooms, a Mobile storeroom, Photocopy machine, Printer, Projector, sport kits for soccer, netball and rugby, science lab kit, and staffroom furniture were procured and donated to the school.

Donations to a school in Giyani consisted of 500 beds, linen, pillows, blankets etc,printers, filing cabinents for Admin Block.


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