



EAST AFRICAN
CRUDE OIL
PIPELINE

CONSTRUCTION COMMUNITY NEWSLETTER

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PROJECT UPDATES FROM THE EACOP PROJECT DIRECTOR



Introducing **Emmanuel Blarez**, the **EACOP Project Director** since July 2020, who has held various leadership roles with TotalEnergies since 1993.

Emmanuel brings a wealth of experience to the EACOP Project, having served as Project Director for the Papua LNG Project in Papua New Guinea (2018-2020) and the South Pars Project in Iran (2017-2018). He was also Deputy Project Director for the Moho Nord Project in Congo (2012-2017) and managed offshore facilities for gas and condensates field development projects in the Barents Sea, Russia (2007-2012), and Iran (2005-2007). His extensive background includes roles as a Project Engineer, Geophysical Survey Specialist, and Marine Geologist Engineer across multiple international projects.

Emmanuel, you have a broad wealth of Experience based on your resume above. What in your opinion makes this EACOP Pipeline Unique?

The 1,443 km East African Crude Oil Pipeline (EACOP) stands out as a remarkable project for several reasons. As the largest trans-border oil and gas project in East Africa, it spans across two countries, Uganda and Tanzania and therefore operates under two distinct regulatory frameworks which adds a layer of complexity as both nations are relatively new to the oil and gas industry. The project is not only a major pipeline endeavor but also incorporates significant electrical infrastructure, showcasing advanced technical integration of pipeline and electrical engineering. This project is also notable for its stringent environmental and social (E&S) commitments, which are rigorously enforced down to the level of contractors and workers, ensuring high standards of sustainability, responsibility and compliance. Additionally, the project is executed by a diverse, multicultural team which brings together diverse skills and perspectives that create a unique collaborative environment. These factors, combined, make EACOP an extraordinary engineering undertaking in the region.

In your opinion, what are the key milestones achieved to-date on the EACOP project?

The project has achieved several key milestones to date, marking significant progress in its development and positioning it for successful completion. The Final Investment Decision (FID) was reached in February 2022, setting the stage for subsequent phases. The Engineering phase is on track for completion by the fourth quarter

of 2024. All Purchase Orders (POs) for Long Lead Items (LLIs) and contractor items will be placed by the end of 2024, ensuring timely procurement of essential materials. Fabrication activities are in full swing, with over 25 operational sites in which approximately 6,000 people are actively engaged. Subsequently, approximately 1,000 kilometers of linepipes have been fabricated in China. Last but not least, the Thermal Insulation System (TIS) Coating plant in Tanzania started in July 2024, and pipeline installation began in September 2024. These achievements underscore EACOP's dynamic pace and successful execution across multiple fronts.

What are we doing to ensure the Safety of both EACOP workers, and the community members is prioritized during this construction Phase?

Safety of our workers

Strict Personal Protective Equipment (PPE) policy and on job training, Daily tool-Box talk, Risk Analysis prior to starting work, and everybody's duty to use Stop-Card process.

Familiarization with respect to our EACOP Life Saving Rules and EACOP Safety Management System Onboarding of all workers in our Zero harm strategy (Safety, Environment and Social for all people working on the EACOP Project and within the communities in which we operate.

Communities

EACOP is committed to prioritizing unskilled workforce recruitment from Project affected communities at all our construction sites.

Workforce from communities do follow exactly the same Safety enhancement program than a 'standard/normal' worker; no differentiation.

EARLY PIPELINE ACTIVITIES

Here in Uganda, the project is divided into two parts. The Tilenga upstream commonly known as “The Feederline” and the 296KM EACOP Midstream Pipeline more commonly known as EACOP or the “Export Line”. Below are some of the milestones achieved on the two sections.

Clear & Grade Operations

Presently our focus is on the Tilenga Upstream - Feederline, where we commenced the Clear and Grade operations firstly at Tilenga Kilometre Point (TKP) 96 to TKP 94+500, then at the Escarpment at TKP 54+800 to 56+000.



The Clear & Grade operation are undertaken by a Ugandan owned Civil Contractor, who is the subcontractor to CPP.

Presently this crew is working between TKP 54 towards TKP 50, prior to remobilizing to TKP 21 towards TKP 0+760, this is the outer perimeter fence at the Tilenga CPF.

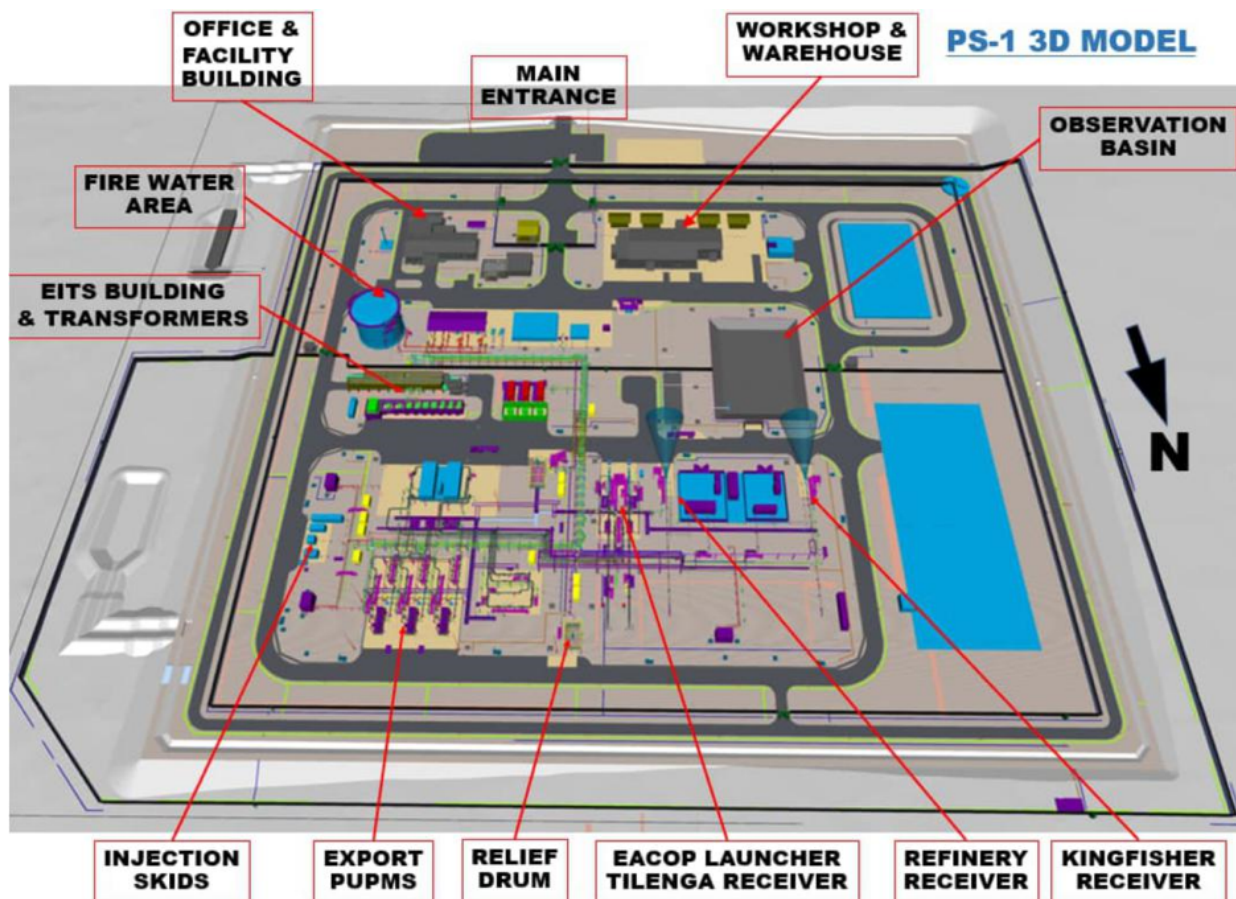


ABOVE GROUND INSTALLATIONS

PUMP STATION 1 (KP 0.0)

PS-1 (KABAAL HUB)

- The Kabaale Hub, Pump Station 1 is located in Uganda approximately 30 km west of the town of Hoima and is KP 0 of the EACOP PIPELINE. It is where the boundaries of Tilenga and Kingfisher Upstream facilities and Midstream the EACOP meet.
- The Kabaale Hub will serve as a place for gathering the upstream feeders and metering of the flows going to EACOP and Refinery. The crude oil is delivered from Tilenga production blocks via 24" pipeline and from Kingfisher production block via a 10" pipeline.
- PS-1 is a permanently manned facility.
- The station consists of 39 main equipment.



PS-1 CONCRETE WORKS

General Highlights

- Early Civil works completed.
- Main foundation civil works in progress



Corrosion inhibitor tank foundation



Export pump foundation



Inlet Custody metering package foundation



Perimeter ditch drainage



Fire water tank foundation



Emergency deisel generator fuel drum

PIPELINE RIGHT OF WAY -PUMP STATION 1 (KP 0.0)

PS-01 Pipeline Right of Way (ROW) the dual pipeline corridor for both the Feederline - TKP 94+500 to TKP 96+000 and EACOP - KP 0 to KP 1.5.

In Uganda we have the only pipeline corridor which carries two pipes within the same right of way. The corridor is approximately 1.5 km long.

Pipe stringing is the first operation after the completion of the Clear and Grade operation.

Pipe Stringing:

The first 3 trucks, supplied by Globe Trotters, CPP's Transportation subcontractor, arrived on the right of way on the 3rd October 2024, some 48 hours after arriving at MCPY-04 and Uganda.

Pipe Stringing involves laying the pipe end to end on earth berms, this makes the welding easier , on pipe earth berms,

Stringing of the pipe photos below:



There will be a few gaps in the pipe strings where the cold field bends will be welded in at a later stage.

Pipe Welding

Pipe welding is the process of joining the two pipes together, CPP use an automatic welding process, which is where the welding is undertaken using 2 No automatic welding bugs, running around a band that is installed around the pipe.

The first weld commenced on the 4th October 2024, and a subsequent further 12 welds were undertaken Presently in Uganda we have completed 131 welds.



Figure 1



Figure 2



Figure 3



Figure 4

Figure 1
The first Weld in UGANDA

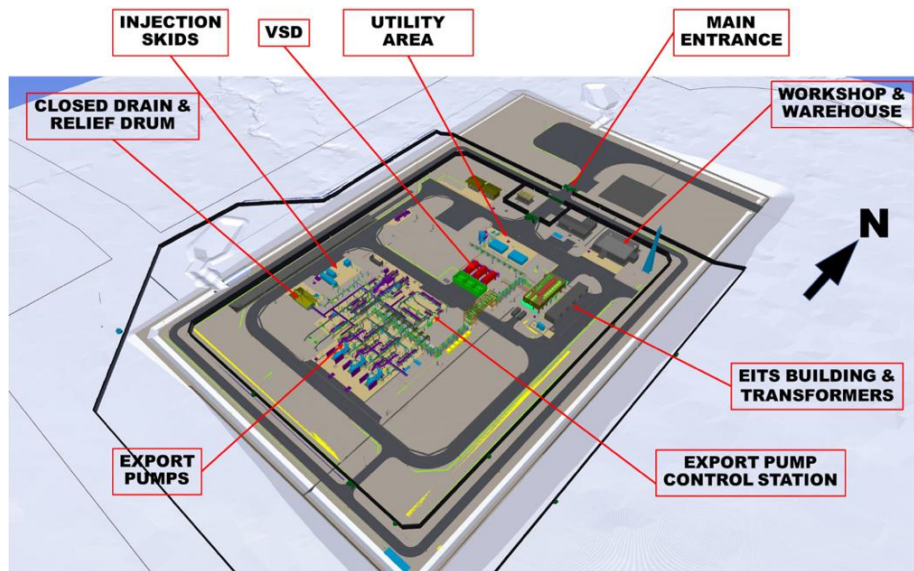
Figure 2
Internal clamp & pipe fit up and alignment.

Figure 3
The actual First Weld after Root and Hot pass welding has been completed, awaiting Fill and Cap welding to complete.

Figure 4
Looking down the pipe at the Side boom & welding Rig and welding Canopy.

PUMP STATION 2 (KP 184.5)

- PS-2 is located in Uganda approximately 50 km north-west of the town of Masaka at KP 184.
- The station shall be managed and maintained by EACOP personnel based at Tilenga CPF and PS-1.
- Sufficient power will be supplied to not only operate the pumps, but also to operate the LLHT system through the HV distribution system that will be installed as part of the Project.
- The station consists of 28 main equipment



**PS-2, PS-3, PS-6
3D MODEL**

General Highlights

- Early Civil works completed.
- Main foundation civil works in progress



Rock breaking activity in progress



Cut and bend rebars for EITS building in progress



Formworks fixing for pipe bridge foundation in progress



Bitumen coating application for export A, B & C in progress



Marking for in-situ duct banks in progress

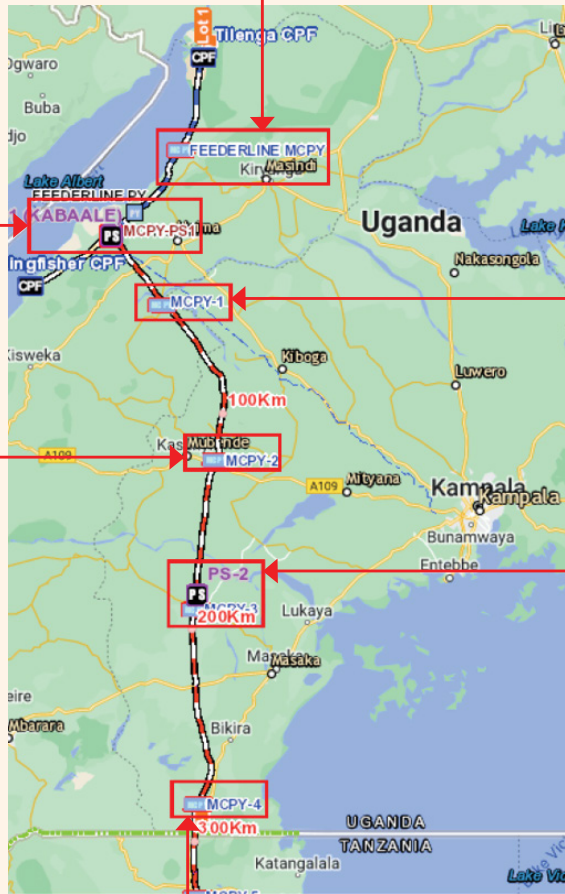


Rebars installation for utility water storage tank in progress

MAIN CAMPS AND PIPE YARD (MCPYS):

TEMPORARY FACILITIES TO SUPPORT PUMP STATIONS CONSTRUCTION

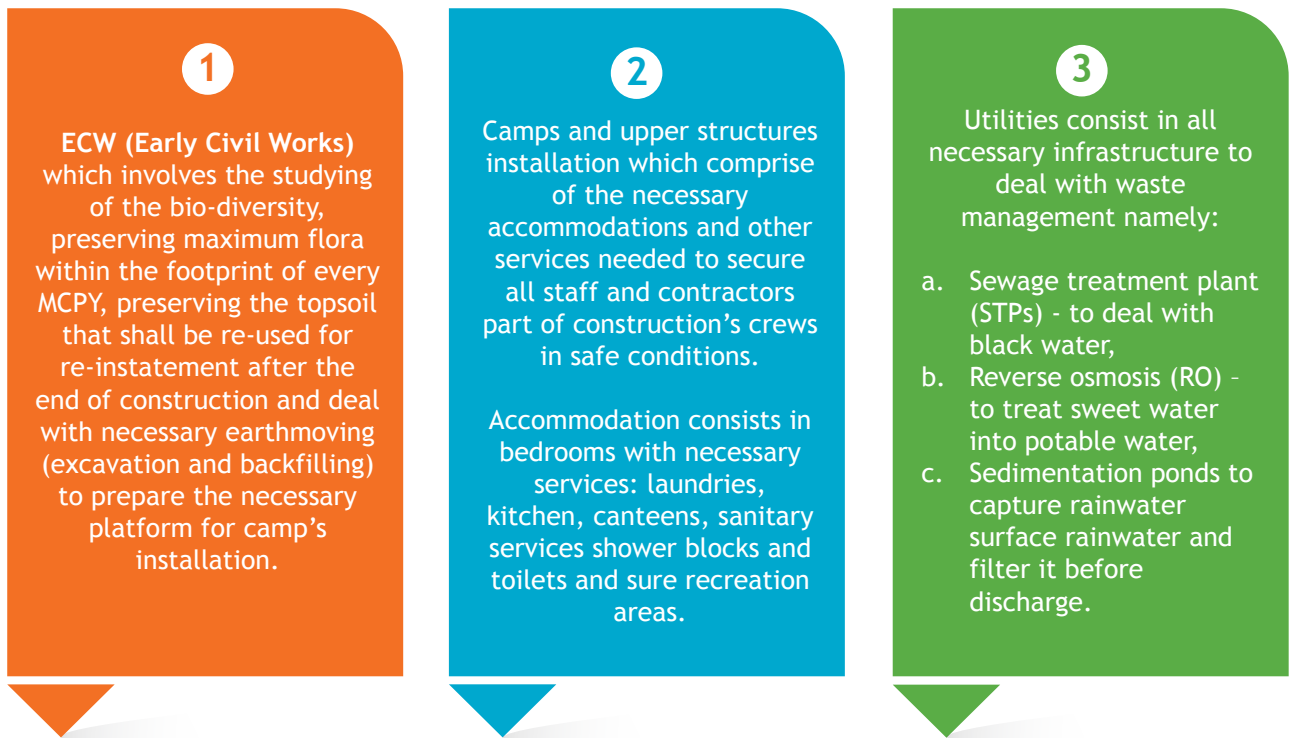
MC-PS1 (@KP 0)
TOTAL FENCED AREA: 33,000 SQM
TOTAL FENCED: 862 LM
TEMPORARY ACCESS ROAD: 100 LM
TOTAL PAX: 301
MCPY2 (@KP 122)
TOTAL FENCED AREA: 174,500 SQM
TOTAL FENCED: 1423 LM
TEMPORARY ACCESS ROAD: 738 LM
TOTAL PAX: 433
MCPY4 (@KP 283)
TOTAL FENCED AREA: 173,900 SQM
TOTAL FENCED: 1452 LM
TEMPORARY ACCESS ROAD: 1670 LM
EXISTING ROAD UP-GRADE: 970 LM
TOTAL PAX: 305



T-MC (@KP 44)
TOTAL FENCED AREA: 99,420 SQM
TOTAL FENCED: 980 LM
TEMPORARY ACCESS ROAD: 40 LM
TOTAL PAX: 348(336+12)
MCPY1 (@KP 40)
TOTAL FENCED AREA: 174,200 SQM
TOTAL FENCED: 1515 LM
TEMPORARY ACCESS ROAD: 536 LM
TOTAL PAX: 351
MCPY3 (@KP 191.3)
TOTAL FENCED AREA: 173,800 SQM
TOTAL FENCED: 1458 LM
TEMPORARY ACCESS ROAD: 743 LM
EXISTING ROAD UP-GRADE: 1,747 LM
TOTAL PAX: 433

MCPYs (Main Camps and Pipe Yards) are constructed to accommodate the personnel involved in the construction within a safe and cozy environment in addition to housing the line pipes and materials in pipe yards.

The construction of the MCPYs is divided into two phases:



MC PS1(KPI 0.00)

General Highlights

- Camp Erection (301 Pax) in progress
- Mechanical ,Electrical and plumbing in progress



Separators for 4 bedrooms building



Double bedrooms building



Canteen / mess hall building



Electrical DB for double bedroom



Fixing Fluorescent fitting for single bedroom



Domestic water supply connection for storage tanks

MCPY-01 (KP 39.3):

The MCPY-01 site is progressing, focusing on both camp facilities and pipe yard construction. The site is a critical part of the EACOP project and work here has been carefully planned to ensure the smooth running of operations.

At the camp, construction of all necessary facilities is underway, which are mostly made up of prefabricated containers. These containers will serve as accommodations and office spaces for the pipeline construction team, ensuring that all personnel on-site have access to the essentials. At full operation, the camp will offer a safe and comfortable environment for workers. The use of prefabricated containers is an efficient solution that will allow us to quickly set up the required infrastructure without significant delays.

In the pipe yard area, we are in the advanced stages of constructing pipe berms, which will be used to receive the pipes. This pipe yards are critical to the overall project, as they will safely store the pipes before they are deployed for installation. The construction of the berms is progressing as planned, and as Uganda has started receiving pipes, we expect to receive pipes at MCPY-01 in the coming days. This has been a focus of activity recently, with crews working diligently to ensure the berms are built to the highest standards.

Throughout this period, we have continued to prioritize safety and environmental considerations. The upcoming rainy season has prompted us to implement additional erosion control measures like silt catch pits in the drainage channels to protect both the environment and the integrity of our worksites.

Furthermore, we are proud to report that we stand at a P.O. B of over 120 and all our semi-skilled and unskilled workers are from the local community in the sub-county of Katikara. Their involvement is part of our ongoing commitment to local workforce engagement, providing skills training and meaningful employment opportunities to the community.

MCPY-01 site remains on track, with key milestones for the camp facilities and pipe yard construction fast approaching. We are dedicated to increasing our current momentum while upholding our commitments to safety, quality, and environmental sustainability in all our operations.



Figure 1
Construction of the pipe berms in the Pipe Yard.

Figure 2
Toolbox Talk where the workers are guided on how to work in safety.

Figure 3
Masons hired from the local community carrying out masonry works on the foundations for the camp facilities.

MCPY-01 THE ARRIVAL OF THE BEND FORCE BENDING MACHINE

MCPY-01 was chosen for its strategic location for both Spreads 1, Tilenga Upstream, and Spread 2, EACOP Midstream to set up the first internal bending machine in Uganda.

The Bend Force Bending Machine arrived onto site on the 16th September 2024.



The Bend force Bending Machine arrived onto site on 16th September 2024.



The first 5 pipes to be cold field bent, arrived in Uganda for the Feederline (FL) on 9th October 2024

Pipe Bending is expected to commence in the third week of October 2024, with the arrival of the Bend force Technicians who shall train the CPP personnel on how to use this equipment.

All cold bends, which are produced to allow for deviations to the ground contours, (either horizontal or vertical), along the pipeline right of way on Spread 1 and 2, shall be produced with this equipment and transported to the right of way, ahead of the welding crews.

MCPY2 (KP 122.0)

The MCPY 2 is in Lugala Village in Mubende district, Uganda 17km from Mubende town and 140km from Kampala City, Uganda. The site's main contractor is CPP (China Petroleum Pipeline Engineering Company Limited-Uganda) with Joysun International Limited (A Ugandan Company) as CPP's subcontractor.

The site is currently in its last phase of the Early Civil works with 98% of the main camp platform area being complete and 70% of the pipe yard platform area being complete as well. 02 of the 03 sedimentation ponds on site have been fully excavated which will be key in management of runoff water from the camps. The fencing works have also commenced with the excavation for the fence post installation in the camp area.

The construction of the camp has also commenced. A significant part of the materials for the construction of the porta cabins has been delivered along with the materials for the septic tank construction. Currently, the excavation and installation of the foundations for the pioneer camp structures is ongoing and has commenced with the precast foundation blocks for the 8-unit four bedrooms porta cabins.

The site's POB is currently averaging 125 personnel consisting of EACOP staff, Joysun staff, CPP staff, city ambulance and Garda World who are the Security service provider for the site. It is important to note that in line with the Project requirements, employment opportunities have been given to the communities around the Project area. The MCPY 2 through CPP and Joysun International Ltd currently employs 29 unskilled and 09 semi-skilled all recruited strictly from 07 villages around the site i.e., Lugala, Sunga, Namirembe, Kirangwa, Kyabando, Kagoma and Kyenda. These numbers over the course of October 2024 shall grow given the commencement of the camp construction activities and setup of the facilities for the camp.

In line with having a safety culture to ensure Zero Harm on the site, Zero Harm has been launched on the MCPY 2 and the Zero Harm trainers have conducted sessions to take workers on site through the Zero Harm orientations. This has ensured an appreciation of safety on site and care for one another among the workers.

The site is located within the community and to ensure a healthy relationship with the members of the communities within which the site is, regular stakeholder engagements have been conducted and continue

to be conducted by the social team with local leaders, site neighbours other stakeholders to pick up on and address any queries, concerns and grievances from community members. This has ensured social acceptability of the project within the community.

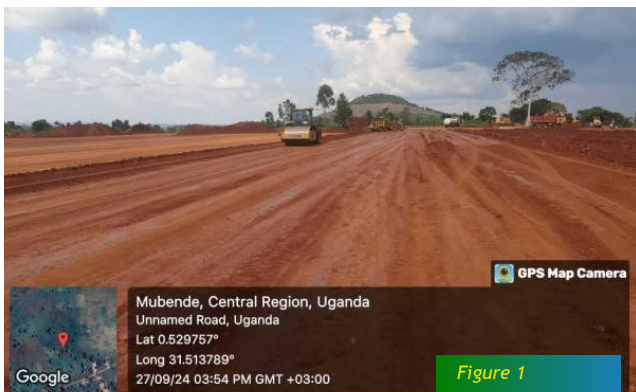


Figure 1



Figure 2



Figure 3

Figure 1

Mass earth works.

Figure 2

Offloading of containers delivering materials for porta cabins.

Figure 3

Removal of materials from containers.

The MCPY-03 site is progressing, focusing on both camp facilities and pipe yard construction. The site is a critical part of the EACOP project and work here has been carefully planned to ensure the smooth running of operations.

At the camp, construction of all necessary facilities is underway, which are mostly made up of prefabricated containers. These containers will serve as accommodations and office spaces for the pipeline construction team, ensuring that all personnel on-site have access to the essentials. At full operation, the camp will offer a safe and comfortable environment for workers. The use of prefabricated containers is an efficient solution that will allow us to quickly set up the required infrastructure without significant delays.

In the pipe yard area, the construction of pipe berms are completed, which will be used to receive the pipes. This pipe yards are critical to the overall project, as they will safely store the pipes before they are deployed for installation. We expect to receive pipes at MCPY3 in the coming weeks.

Throughout this period, we have continued to prioritize safety and environmental considerations. The upcoming rainy season has prompted us to implement additional erosion control measures like silt catch pits in the drainage channels to protect both the environment and the integrity of our worksites.

Furthermore, we are proud to report that we stand at a P.O. B of over 150 and all our semi-skilled and unskilled workers are from the local community. Their involvement is part of our ongoing commitment to local workforce engagement, providing skills training and meaningful employment opportunities to the community.

MCPY-03 site remains on track, with key milestones for the camp facilities and pipe yard construction fast approaching. We are dedicated to increasing our current momentum while upholding our commitments to safety, quality, and environmental sustainability in all our operations.

AGI - MCPY3 (KP 191.3)

General Highlights

- Camp Erection (478 Pax) in progress
- Mechanical ,Electrical and plumbing in progress



CTR Canteen - type 2



Electrical room foundation



Sewer line



PIPE YARD - Pipe berm construction



Fixing formwork at the shaft tank



Domestic water supply connection for storage tanks

MCPY4 (KP 282.8)

Progress Update

The MCPY-04 site is advancing steadily, with a dual focus on camp facilities construction and pipe yard activities. This site is a pivotal component of the East African Crude Oil Pipeline (EACOP) project, and meticulous planning has been key to ensuring seamless operations.

Camp Facilities

Construction of essential facilities is in full swing, primarily utilizing prefabricated containers. These containers will provide accommodations and office spaces for the pipeline construction team, ensuring that all on-site personnel have access to necessary amenities. Once fully operational, the camp will offer a safe and comfortable environment for workers. The use of prefabricated containers is an efficient solution, enabling rapid infrastructure setup without significant delays.

Pipe Yard Activities

The pipe yard is actively receiving and deploying pipes to other MCPY sites, playing a crucial role in the overall project logistics.

Safety and Environmental Considerations:

Throughout this period, we have continued to prioritize safety and environmental considerations. The upcoming rainy season has prompted us to check our drains and sedimentary ponds to ensure they are working properly, protecting both the environment and the integrity of our worksites.

Local Workforce Engagement

We currently have an average P.O.B. (Personnel on Board) of over 54, with all our semi-skilled and unskilled workers hailing from the local communities of Nabigasa, Kabugimbi, and Kyakacwere. Recently, we recruited 12 semi-skilled workers from the villages of Kabonera and Bigada, who will join the team after completing their medicals, bringing the P.O.B. to 66. Recruitment is ongoing, and other villages will be considered for upcoming positions. This initiative is part of our commitment to local workforce engagement, providing skills training and meaningful employment opportunities to the community.

Looking Ahead

The MCPY-04 site remains on track, with key milestones for the camp facilities construction fast approaching. We are dedicated to maintaining our current momentum while upholding our commitments to health, safety, quality, and environmental sustainability in all our operations.



The Main Marshalling yard at MCPY-04 site is progressing, focusing on camp construction and the receipt of the first joints of pipe into Uganda from the TIS on facilities as of the 1st October 2024.

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