



OPPORTUNITIES FOR SHIPPERS AND LOGISTICS PLAYERS IN UGANDA'S OIL SECTOR

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PETROLEUM EXPLORATION AND PRODUCTION



2006

- Hardman Petroleum Pty (now Tullow) makes the first commercial discovery well in Kayiso Tonya area.
- Hardman Petroleum Pty (now Tullow) signs an MOU with Government for an Early Production Scheme (EPS) for oil production, and Thermal Power generation ~ 50-85MW.

2007

Dominion Petroleum is licensed to Exploration Area 4B.

2008

Cabinet approves the National Oil and Gas Policy;

2010 - 2012

- Farm-out of Heritage oil and Gas to Tullow and Farm-in of Total E & P Uganda and CNOOC Uganda Limited
- Production License over Kingfisher issued

2013:

- Petroleum (Exploration, Development and Production) Act 2013 enacted
- In addition to Kingfisher, Total and Tullow submit applications for possible award of Production Licenses over sixteen (16) discoveries



PETROLEUM EXPLORATION AND PRODUCTION



2014

 A Memorandum of Understanding on Commercialisation was signed between Government and Licensed oil companies which under pinned the three principles options of crude for export, refinery and crude for power.

2015

 First competitive licensing round for 6 blocks in the Albertine Graben, that culminated into the licensing of Armour Energy Limited (Australia) and Oranto Petroleum Limited (Nigeria)

2016

- Six (6) Production Licenses issued to Tullow Uganda Operations Pty and three (3) Production licences issued to Total E & P Uganda
- The Hoima to Tanga Crude oil pipeline routing agreed

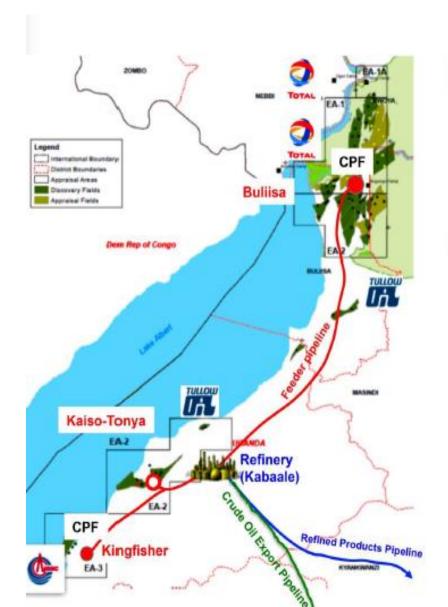
2017

- Appointment of Directors for the Petroleum Authority of Uganda
- FEED for Upstream Facilities and also for EACOP were launched
- IGA for EACOP was signed between Uganda and Tanzania and foundation stone laid
- New exploration Licenses issued to Armour Energy Limited (Australia) and Oranto Petroleum Limited (Nigeria).



LAKE ALBERT OILFIELD OVERVIEW





UPSTREAM

- Discovered oil in blocks EA-1, EA-2 & EA-3
- Operated by CNOOC, Total & Tullow
- Production licences granted pproduction plateau ~ 230,00bd

Refinery at Kabaale

- Phase 1 30kbd,
- Phase 2 60kbd

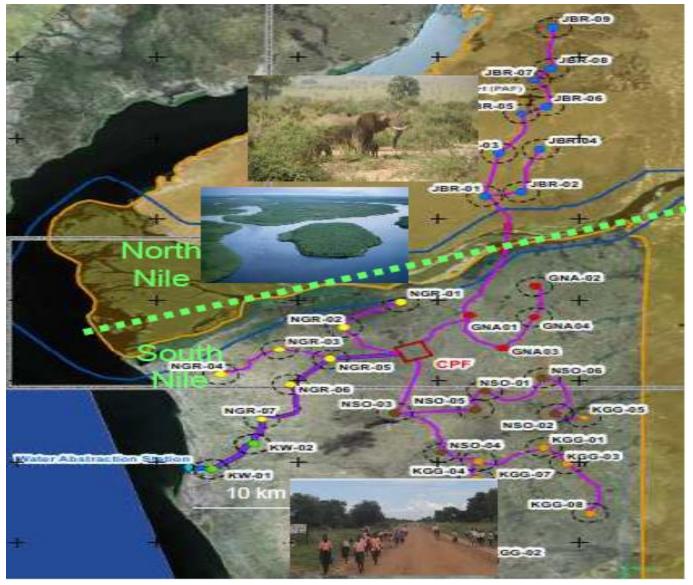
EACOP project :

- 1,450km Export Pipeline to Tanga (TZ)
- Design capacity 200kbd
- Pumping stations
- Marine Terminal



TILENGA UPSTREAM PROJECT







TILENGA SURFACE FACILITIES



Tilenga Oil field Development Project consists of the following facilities:

- □ Wellpads (36) includes drilling 401 Oil production wells and water injection wells from thirty six (36) well pads
- □ ~230km Infield Flowlines These link well sites to the CPF by production flow lines, water injection lines, electrical cables and fibre optic cables
- □Central Processing Facilities Construction of 190 kbopd & 700 kbbl/d total liquid treatment capacity
 - Power generation
 - Water treatment and lake water re-injection
- □ Feeder line Construction of 100Km heat traced feeder line Kingfisher to Kabaale
- □ Other Infrastructure Permanent and temporary Camps, Construction Yards, Supply Base etc.



KINGFISHER OILFIELD DEVELOPMENT







KINGFISHER SURFACE FACILITIES



The Kingfisher Oil field Development Project shall comprise these facilities:

Wellpads (4) – includes drilling the Oil production wells and the water injection wells from four locations adjacent to the banks of Lake Albert
1.6~3km Infield Flowlines - These link well sites to the CPF by production flow lines, water injection lines, electrical cables and fibre optic cables
Crude Processing Facility (CPF)- Construction of 40,000 bopd Oil treatment Capacity
Lake Water Intake pump Station – Construction of a lake water intake pump station on the shore of lake Albert and water transfer pipelines to CPF
Feeder line – Construction of 50Km crude oil pipeline with related power and fiber optic cables
Other Infrastructure - Permanent and Temporary Camp, Construction Yard, Supply Base etc.

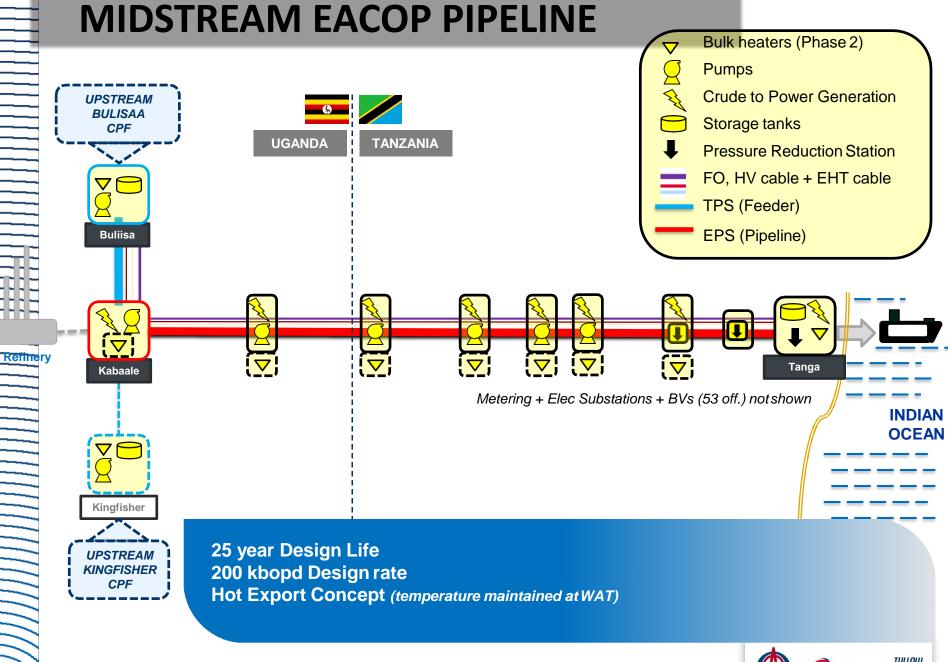


KINGFISHER EPC PACKAGES



There are four (4) EPC packages planned for the field development as follows:

- **EPC-1:** Pad1/2/3 Pre-drilling works and Inter-pads Roads (Duration: 9 months)
- **EPC-2:** Permanent Camp & Supply Base & Safety Check Station & Well Pads (Civil Works) (Duration: 33 months)
- **EPC-3:** CPF, Well Pads (Production Facilities), Infield Flowlines & Water Intake Station (Duration: 33 months)
- □ EPC-4: Feeder Line
- 50km, 10 inches, 40,000 bbl/day
- buried underground with heat trace and fibre optics (Duration: 24 months)
 The above services will require the following:
- Detailed engineering design; Procurement and transportation of materials for the works
- Construction works as per the approved drawings and specifications
- Pre-commissioning and mechanical completion where necessary







TILENGA UP STREAM MATERIAL



Enabling Work and CPF Estimated starting date: Q1 2019

➤ Duration of the construction campaign : about 2-3 years

Sites	Works	Imports	Estimate Tonnage	Entry points to Uganda	Destination
Buliisa North Field		Equipment (Steel, Machineries etc)	12,200 T	Busia / Tororo	Tangi
Buliisa South Field	Enabling works	Equipment	13,300 T	Busia / Tororo	Bugungu
Buliisa South CPF	CPF	Equipment	20,000 T	Busia / Tororo	Buliisa
		Total	43,500 T		
		Material			
Buliisa North- South and CPF Field	Construction	Materials (Cement, Gravel, Sands)	1,000,000 T		
rieiu	Consumables	Fuel, food, generals supplies	220,000 T		
			1,200,000 T		



Drilling Equipment / Material



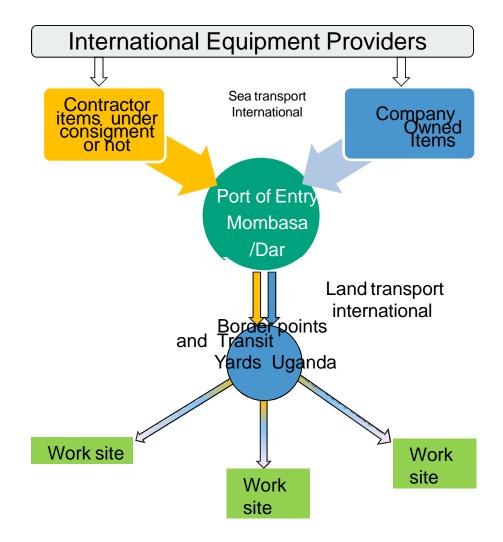
- ➤ Estimated starting date: Late 2019
- Duration of the drilling campaign
- Number of wells to be drilled: North Field 100 wells / South Field 300 wells

Sites				Entry point	Destination
Buliisa N. Field		quipment (Casing, ellhead+ cement + fuilds)	-	Busia / Tororo	Tangi
Buliisa S. Field	Ec W	quipment (Casing, 'ellhead + cement fluids,)	147,000T	Busia/Tororo	Bugungu or other
		Total	196,000T		



EQUIPMENT TRANSPORT FLOW CHART







NATIONAL CONTENT



The primary Uganda Regulations involved with the National Content aspects for Upstream and Midstream Pipeline Projects are:

- The Companies Act 2012 18th September 2012
- Statutory Instruments Supplement No. 14 2nd June 2016:
- -The Petroleum (Refining, Conversion, Transmission and Midstream
- Storage) (National Content) Regulations, 2016
- Statutory Instruments Supplier No. 18 24th June 2016: The
- Petroleum (Exploration, Development and Production) (National
- Content) Regulations 2016

"Ugandan company" for purposes of section 53 (4) of the Act and regulations, means;

- a company incorporated under the Companies Act, 2012 and which;
- (a) provides value addition to Uganda;
- (b) uses available local raw materials;
- (c) employs at least 70% Ugandans; and
- (d) is approved by the Authority under regulation 10(3).



NATIONAL CONTENT



Goods and Services to be provided by Ugandan Companies and Citizens Registered Entities (per Supplement No. 14 Regulation 11 (1) and (2)

Transportation
Security
Foods and Beverages
Human Resource Management
Office Supplies
Fuel Supply
Land Surveying
Clearing and Forwarding
Crane Hire
Locally available construction materials
Civil Works
Environmental studies and impact assessments
Communications and information technology services
Waste management, where possible



NATIONAL CONTENT



Total E&P / Tullow / CNOOC and their EPC companies will as per local content regulations require foreign companies and JVs bidding for works to submit a National Content Plan with details of the Bidder's strategy, key activities, organisation, procedures and plans together with National Content Reporting Matrix.

The	e National Content Plan must specify:
	Goods and services to be provided
	Ugandan Labour component
	Ugandan Preference in Bid Evaluations
	Succession Plans
	QHSE Standards
	Technology & Knowledge Transfer
	Research & Development
	Procurement Opportunities
	Local Supplier Development
	Partnerships
	Local Education Institutions
	Training Plans / Skilling



OPPORTUNITES FROM OILFIELD INFRASTRUCTURE



- ☐ Oilfield Development 2019 2025 **\$ 20 Billion** Includes:
- E.African Crude Oil Pipeline EACOP **\$ 4 Billion**
- Refinery Development at Kabaale \$4 Billion
- Kabaale International Airport \$ 200 Million

Upstream infrastructure for The Tilenga and Kingfisher Fields Development and EACOP project forms the bulk of project capital expenditure in the short term to 2021.



OILFIELD INFRASTRUCTURE







