



**Azikel**  
**PETROLEUM**



# FOUNDATION LAYING *Ceremony* of **AZIKEL REFINERY PROJECT**

17TH FEBRUARY, 2018





**Azikel Group**

‘We are committed to the pivot of re-industrialization of the Niger Delta and Nigeria,  
creating employment, wealth and financial freedom’

**DR. ERUANI AZIBAPU GODBLESS**  
**Group President**



**PRESLEY ASEMOTA**

EXECUTIVE DIRECTOR OPERATIONS



**RUFINA AJALIE**

GROUP HEAD, CORPORATE SERVICES



**RICHARD HOWARTH**

DIRECTOR, STRATEGY AND INVESTMENT



**GABRIEL OLUSEGUN AREMU**

DIRECTOR FINANCE AND ACCOUNTS



**THOMAS FULLER**

DIRECTOR, REFINERY OPERATIONS



**STUART HUGHES**

DIRECTOR OF AVIATION



## *National Anthem*

Arise, O compatriots,  
Nigeria's call obey  
To serve our fatherland  
With love and strength and faith  
The labour of our heroes past  
Shall never be in vain  
To serve with heart and might  
One nation bound in freedom,  
peace, and unity.

Oh God of creation,  
direct our noble cause  
Guide our leaders right  
Help our youth the truth to know  
In love and honesty to grow  
And living just and true  
Great lofty heights attain  
To build a nation where peace and  
justice shall reign.





# FOUNDATION LAYING *Ceremony* of **AZIKEL REFINERY PROJECT**

*by* **His Excellency, Chief Olusegun Obasanjo**  
**Former President, Federal Republic of Nigeria**  
~Special Guest of Honour~

## in the gracious presence of:

His Excellency,  
Rt. Hon. Seriake Dickson  
Governor Bayelsa State  
~Chief Host~

Dr. Emmanuel Ibe Kachikwu  
Hon. Minister of State for  
Petroleum Resources,  
Fed. Republic of Nigeria  
~Special Guest~

HRM, King Alfred Diete Spiff  
Amayanabo of Twon-Bras and  
Chairman Bayelsa State Council  
of Traditional Rulers  
~Chairman~

HRM, King Edmond Dakoru  
Mingi XII,  
Amayanabo of Nembe  
~Royal Father of the day~

On  
17th February, 2018

By  
11:00am

**@ Azikel Refinery Project Site,**  
(Adjacent SPDC Gbarain-Ubie Gas Gathering Facility),  
Obunagha Gbarian, Yenagoa,  
Bayelsa State, Nigeria.

*Project Sponsor*

**Dr. Eruani Azibapu G.**  
President,  
Azikel Group

*R&VP*

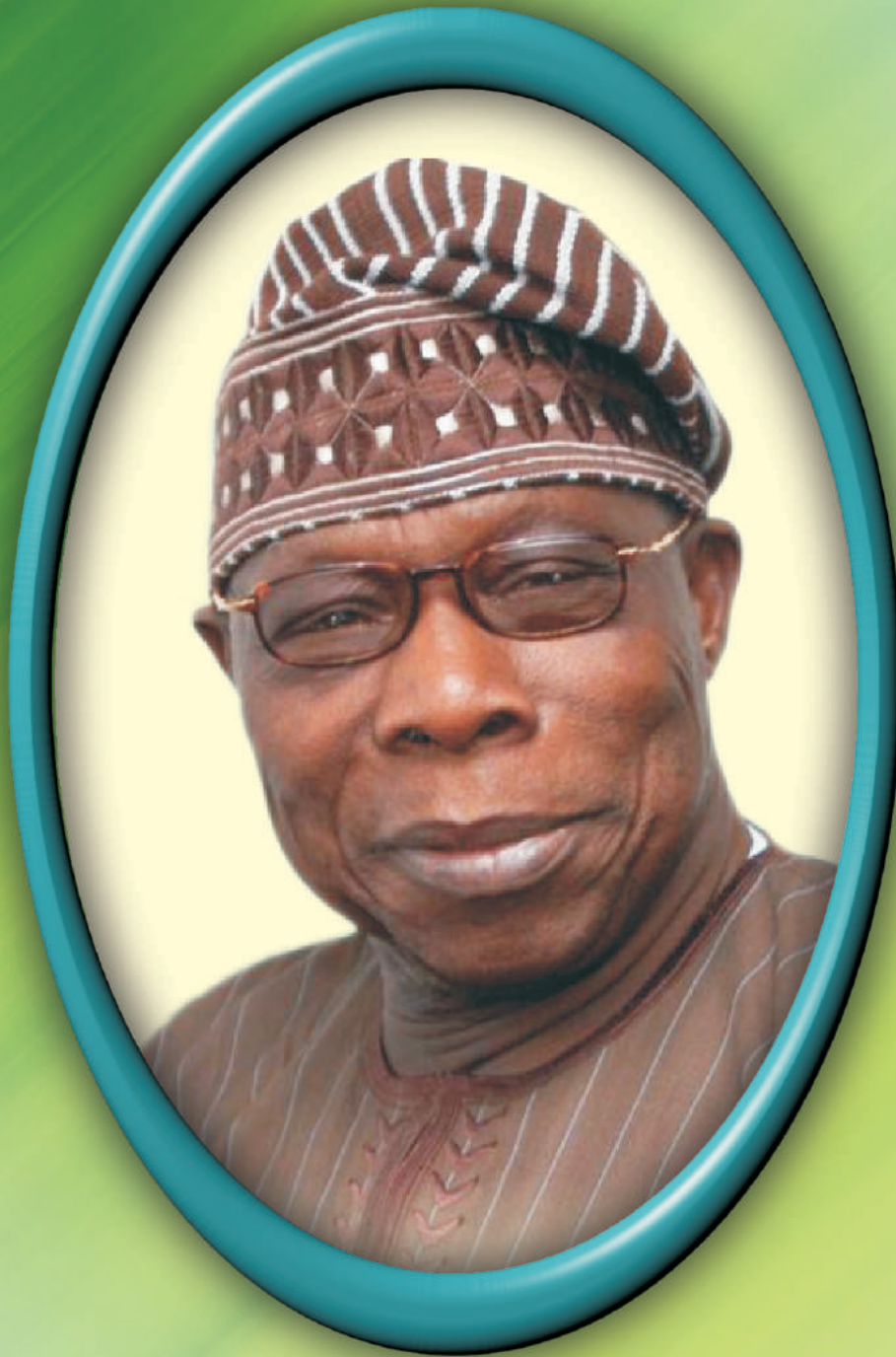
**Presley Asemota**  
Executive Director, Azikel Group  
+234-810-344-4440





His Excellency  
**Muhammadu Buhari GCFR**





His Excellency

**Chief Olusegun Obasanjo**

Former President, Federal Republic of Nigeria





His Excellency  
**Dr. Emmanuel Ibe Kachikwu**



His Excellency

**Rt. Hon. Seriake Dickson**

**Governor, Bayelsa State**





**Dr. Eruani Azibapu Godbless**  
President,  
Azikel Group

# Programme

1. NATIONAL ANTHEM

2. OPENING PRAYERS

3. OPENING SPEECH BY THE CHAIRMAN, HRM. KING ALFRED PAPAPREYE DIETE-SPIFF, THE AMAYANABO OF TWON BRASS AND CHAIRMAN BAYELSA STATE COUNCIL OF TRADITIONAL RULERS.

## 4. MUSIC INTERLUDE

5. PROJECT OVERVIEW BY THOMAS FULLER- DIRECTOR REFINERY PROJECT
6. WELCOME ADDRESS BY THE PRESIDENT AZIKEL GROUP, DR. ERUANI AZIBAPU GODBLESS.

## 7. BAYELSA STATE CULTURAL TROUPE PERFORMANCE

8. SPECIAL REMARKS BY HRM. KING EDMUND DAUKORU MINGI XII, AMANAYABO OF NEMBE - ROYAL FATHER OF THE DAY
9. GOODWILL MESSAGES
- A. REPRESENTATIVE OF HOST COMMUNITIES
  - B. EXECUTIVE DIRECTOR MRS OIL & GAS
  - C. MANAGING DIRECTOR SHELL PETROLEUM DEVELOPMENT COMPANY (SPDC)
  - D. EXECUTIVE SECRETARY NIGERIAN CONTENT, DEVELOPMENT AND MONITORING BOARD

## 10. REFINERY JIVE

11. ADDRESS BY HON MINISTER FOR STATE FOR PETROLEUM DR. EMMANUEL IBE KACHUKU
12. SIGNING OF CERTIFICATE OF OCCUPANCY/ADDRESS BY HIS EXCELLENCY HENRY SERIAKE DICKSON, CHIEF HOST & GOVERNOR, BAYELSA STATE.

## 13. MUSIC ON WOOD

14. ADDRESS & FOUNDATION STONE-LAYING BY THE SPECIAL GUEST OF HONOUR, HIS EXCELLENCY CHIEF (DR) OLUSEGUN AREMU OBASANJO PRESIDENT, FEDERAL REPUBLIC OF NIGERIA 1999-2007
15. VOTE OF THANKS BY PRESLEY ASEMOTA – EXECUTIVE DIRECTOR, AZIKEL GROUP.
16. CLOSING PRAYER
17. NATIONAL ANTHEM

## STATE DINNER/COMMAND PERFORMANCE

@

THE DSP ALAMIEYESEIGHA BANQUET HALL, GOVERNMENT HOUSE, BAYELSA STATE

BY 7.30PM



# AREA MAP

## of Azikel Refinery Project Site

An aerial view of Azikel Refinery project site, showing areas bounded on the cardinal points before the land preparation.

By the South is the River Nun which cut across the deltaic regions in Nigeria,

By the North is the Obunagha Community, Northwest by the Gbarain NIPP Power Plant

By the East is the Shell Gas Gathering Facility, Gbarain-Ubie and by the West is Azikel Power Land





# Welcome from the Project Sponsor, Dr Eruani Azibapu Godbless.

I gladly welcome you to this historic foundation laying of the Azikel Refinery Project, the first private hydro-skimming refinery in Nigeria. This project started out of my quest to drive the industrialization of the Niger Delta, creating employment, wealth and financial freedom. Upon completion we will be reversing the sad scenarios of incessant scarcity of refined petroleum product in Nigeria, despite the abundance of crude oil in Nigeria, also the negative narratives centred on negative vices, indolent, educationally backwardness, militancy, incompetence, among others about the oil rich, Bayelsa State, and the misconceptions about the Niger Delta would be corrected and reframed for a state with services and readiness to adding value to Nigeria economy.

Oloibiri in Ogbia Local Government Area of Bayelsa is the cradle of oil and gas activities in Nigeria in 1956, exported her first commercial production in 1958. In the last three decades the nation refined product supplier chain has experienced instability as a result of low operation of the nation's refinery, this has led to continuous importation of petroleum refined product, with its associated insufficient supply. This challenges in the downstream oil sector are issues of national discuss; and this malaise plaguing the Nigeria economy undoubtedly became the nightmare of successive leaders. Ladies and Gentlemen, it is factual that the private sector participation was germane to shore up availability of refined petroleum products and that led to the issuance of refinery licenses to allow private sector participation by President Muhammadu Buhari in the early phase of his administration, of which Azikel Refinery was licensed in 2015 at the inception of the

administration.


Ladies and Gentlemen, a lot has gone into the development of this 12,000 BPSD hydro-skimming refinery project. The Offshore Modules (EPF) of the Inside Battery Limits (ISBL) is 65% completed and the Outside Battery Limit (OSBL) is 45% achieved, evidence by the ongoing works around this 19.9 hectares of reclaimed virgin swamp forest.

Friends, with relevant licenses (LTE and ATC) from the federal government and regulatory bodies and the ongoing works of the ISBL and OSBL we racing to the finishing line. Esteemed Guest, this project will strengthen our nation's economy as we add value to the crude oil, industrializing the Niger Delta and Bayelsa, creating both direct and indirect employment, with a multiplier effect on the economy towards stability, sustainable growth and development. Once again, welcome on board, we cherish your esteemed presence, contribution, collaboration and solidarity in our quest to supporting the nation's refining capacity and as we put Nigeria on a fast lane of economy recovery.

*Dr. Eruani Azibapu Godbless*  
**President, Azikel Group**






An aerial photograph showing a large, rectangular area of cleared land, likely a former refinery site, which is being filled with sand. The sand is a light tan color and covers most of the central part of the image. To the left of the sand-filled area is a dark, swampy region with some green vegetation. To the right is a more developed area with buildings and infrastructure. In the foreground, a body of water is visible, with a long, curved line of buoys or a pipeline extending from the shore into the water. A small boat or platform is visible at the end of this line. In the background, there is a residential area with houses and a road, and a river or canal winding through the landscape.

Area view of cleared Refinery site  
with dredging machine pumping  
initial sand to the site.

Bounded on the west hand side with  
fresh swamp forest cleared area for  
Azikel Power.



A photograph showing a flooded area with dense green vegetation, likely a swamp forest. In the background, there are tall palm trees and a cloudy sky. The water is murky and reflects the surrounding greenery.

The Refinery site in its natural flooded state with over flowing water from the swamp forest.

It takes **Courage** and **Determination** to commence the development of this site.

**Yes!** We achieved it. This is where we are sitting today













Azikel Refinery site in its natural flooded state before development.

This is where we are coming from!









*wampy forest*

This is the fresh water swamp forest that remains flooded during the dry season, being inspected by the President of Azikel Group before the commencement of the clearing campaign.





The clearing of the swampy forest and the destumping of the 19.9 Ha, was undertaken for 91 days by rolling out the necessary equipment to achieve the best result.







## *Clearing and Destumping*





# THE AZIKEL REFINERY Overview

**A**zikel Refinery is 12,000 BPSD hydro-skimming refinery, it is the first private Hydroskimming Refinery in Nigeria. Azikel Refinery will be producing mixed LPG, Gasoline(Petrol), Kerosene, Jet A1(Aviation Fuel) and Diesel as primary products, while naphtha, heavy fuel and residual fuel(ATBs) would be produced as secondary products.

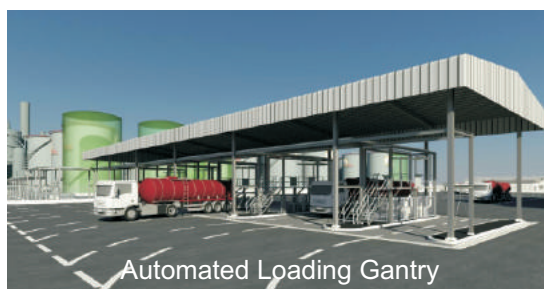
The Refinery is been developed in two distinct features, viz **Inside Battery Limits(ISBL)** consisting of Crude Distillation Unit, Naphtha Hydrothreater, Catalytic Reformer, Isomerization, LPG/Gas Plant, Kerosene/Jet Treater, Diesel Treater, Caustic Facilities and Sour Water Stripper while the **Outside Battery limits(OSBL)** consist of 667, 500 barrel of crude and refined product storage tanks capacity, of 32 units of various tank sizes,

multiple station loading bay gantry, Utilities (including instrument air, plant air and power generation), 3.1km internal road network, Maintenance, operational and administrative buildings, Vapour recovery units, Fire stations and other ancillaries.

The Azikel Refinery emission control mechanism is a state of the art operational system, which allow the facility attain the Lowest Achievable Emission Rate (LAER), essentially to ensure that the refinery is the cleanest in Africa. The facility is also equipped with high technology mechanism to treat waste water to attain zero-discharge. Azikel Hydro-Skimming Refinery is engineered with the latest technology, the process unit are modularized and designed to maximize high level conversion of crude and condensate feedstock.



ISBL Process Modules



Automated Loading Gantry



Storage Tanks



ISBL Process Modules





# The Site

The natural state of the location of which Azikel Refinery site is that of a naturally challenging thick virgin swamp forest, below sea level, flooded and waterlogged, but strategically located to the Shell Petroleum Development Company (SPDC) Gbarain-Ubie Gas Gathering facility which accords it a high premium and therefore very expensive to acquire too. The construction works on the Azikel Refinery site possess a lot of physical challenges owing to the difficult terrain which require massive sandfilling to

regenerate the land. The site was sand filled with over 2.7 million cubic meters of sand.

This Refinery site has an alluring aesthetics interfacing with nature, as it is bounded by the historic River Nun in the

south, the SPDC Gas Facility in the East, Azikel Power land on the West and Gbarain Power Plant on the Northwest with the Obunagha community settlement and their neighbours on the North.











Land survey pre-reclamation  
and geotechnical  
investigation





# Reclamation







## *Reclamation*

The land reclamation campaign of 2.7 million cubic meters of sand was undertaken for a period of nine (9) months. This process was adopted to make the acquired swampy forest suitable for its development.







*Progress Check*  
by the Group President



The inspection of the land reclamation process by the Azikel Refinery Team, led by the President of Azikel Group











Site Reclamation  
*Completed*





Successful completion of the sand filling and reclamation campaign of the Refinery Project Site.







## *Site Fencing*







## *Road Networking*

Civil works of  
3.1km internal  
roads network of  
the Refinery  
accomplished to  
stone base.





# AZIKEL REFINERY PROJECT DEVELOPMENT *Milestones*

The development of Azikel Refinery comes in multi facets. The License To Establish(LTE) and Approval to Construct(ATC) of Azikel Refinery was granted in 2015 at the early onset of the President Muhammadu Buhari administration.

Azikel refinery team hit the ground running to achieving the objective of producing refined product in Nigeria. The development of the refinery from ground state is highly dynamic, with several coordinating parts, both locally and international. Upon the acquisition of the site, the team commenced both soft development and physical infrastructural development.

In 2015, the soft developments are;

- Technical feasibility Engineering Report
- Front End Engineering
- Two season Environmental Impact and Social Assessment
- Water ways Bathymetric studies
- Geotechnical studies
- International Finance Capital Advisory and International Legal Team Engagement

In 2016, physical infrastructural development works commenced with the following;

- Land clearing, Destumping and Cater away of 19.9 hectares
- Sand filling and reclamation with 2.7 million cubic meters of sand
- Land drainages, sedimentation and consolidation for 6 months

In 2017 upon land consolidation, more of physical site development continued, with;

- Concrete perimeter fencing

- Underground drainage
- 3.1km Internal Road construction
- Gate and Security Building
- Offsite Construction of 150 Apartment Units

Still in 2017 other soft development were;

- Detailed End Engineering for OSBL and ISBL
- Contractual engagement for Operations and Maintenance
- Feed stock contracts
- Owner's Engineering Contractual
- Engineering Procurement and Fabrication Contractual
- Product offtake Contractual
- Training abroad of young engineers for refinery operation

In 2018, more of the physical development;

- Concrete Pilling of crude and refined product storage tanks
- Commencement of construction of storage tanks
- Multi station loading by Gantry
- Terminal Operators Building
- Maintenance building
- Administrative building
- Helipad
- Concrete and Civil works for Core Refinery Installation areas.

The final completion phase of the project is shipping and installation of core refinery modules(ISBL). Upon receiving the modules at the site, the installation phase is estimated for 90 days while testing and commencement of operation is schedule for another 120 days





The Group President, Dr. Eruani Azibapu Godbless visits the fabricating company while in progress



Module 103 Assembly in progress



Module 102 Assembly in progress



T-101 Fabrication in progress



Site visit by International Capital fund  
raisers from the United States and The  
Owners Engineer/Project Management  
Consultants from the United Arab  
Emirates









Group photograph backing River Nun with the US, UAE and Azikel team during the due diligent visit







*Aerial view of the  
developing site*



**Federal Ministry of Environment team visits site for final ESIA approval**







Chief Abraham Akande visits the Refinery Site and walks in sand at the end of the sand-filling campaign







Chief Benson Agadaga National Chairman, Ogbia Brotherhood visits to the refinery site



Foremost Engineer and Octagonarian, Chief Engr. Rex Ogboku visits the refinery site







## Bayelsa State

Bayelsa State was created out of the Old Rivers State in 1996. The name (Bayelsa) is an acronym of three local government areas of Brass, Yenagoa and Sagbama.

### Location:

Bayelsa is geographically located within latitude 04'15' North, 05' 23' South and longitude 05' 22' West and 06' 45' East, it shares boundaries with Delta State in the North, Rivers State on the East and the Atlantic Ocean on the West and South.

### Area:

The state features a tropical rain forest with an area of about 21, 110 sq. km and more than three quarters of this area is occupied by water with a moderately lowland stretching from Ekeremor to Nembe. The state also has network of several creeks and rivers in the south, leading into the Atlantic Ocean via major rivers such as San Bartholomew, Brass, Nun and Ramos.

### Climate:

Bayelsa climate is characterised by heavy rainfall and short period of dry season, our vegetation is characterised with mangrove and thick forest with arable land for cultivation, though the area (state) lies below sea level with several meandering creeks and mangrove

swamps.

### Population, People and Language:

Bayelsa has an estimated population of over 3 million people, with four main cultural group and the languages are Izon, Nembe, Ogbia and Epie-Atissa, while the predominate religion in the state is Christianity and traditional worship.

### Occupation:

The traditional occupations of the people are mainly fishing, palm oil milling, lumbering, trading, palm wine tapping, local gin making, canoe carving and weaving.

### Commerce:

Bayelsa is an oil producing state, contributing over 30% of Nigeria's oil production; history was made in the state in 1956 when oil was first discovered in Oloibiri and exported in commercial quantity in 1958.

There are hundreds of oil wells and flow station across the state, just as gas production is intensified in the state, such as the Brass Liquefied Natural Gas (BLNG), while the major oil exploration and production companies are SPDC, NAOC and Chevron. Yenagoa, the Bayelsa capital that was previously powered by the Kolo Creek Gas Turbine is not connected to the national grid.

In addition to oil and gas, the state

has large reserve of clay, sand needed for glass making and gravel which is significant to the economy towards accelerated industrial growth.

### Tourism:

Bayelsa state has a unique tourist potentials, places, sight and sound that stands her out as one of the major cultural destination in the country, such as the mangrove and Olodi museum in Nembe, Olodi, the Oloibiri National Museum in Ogbia council area, the Whiteman Graveyard in Twon Brass, the Slave Tunnel and Light House in Akassa.

Others are the King Ockiya's mausoleum in Nembe and Bronze head in Opuma.

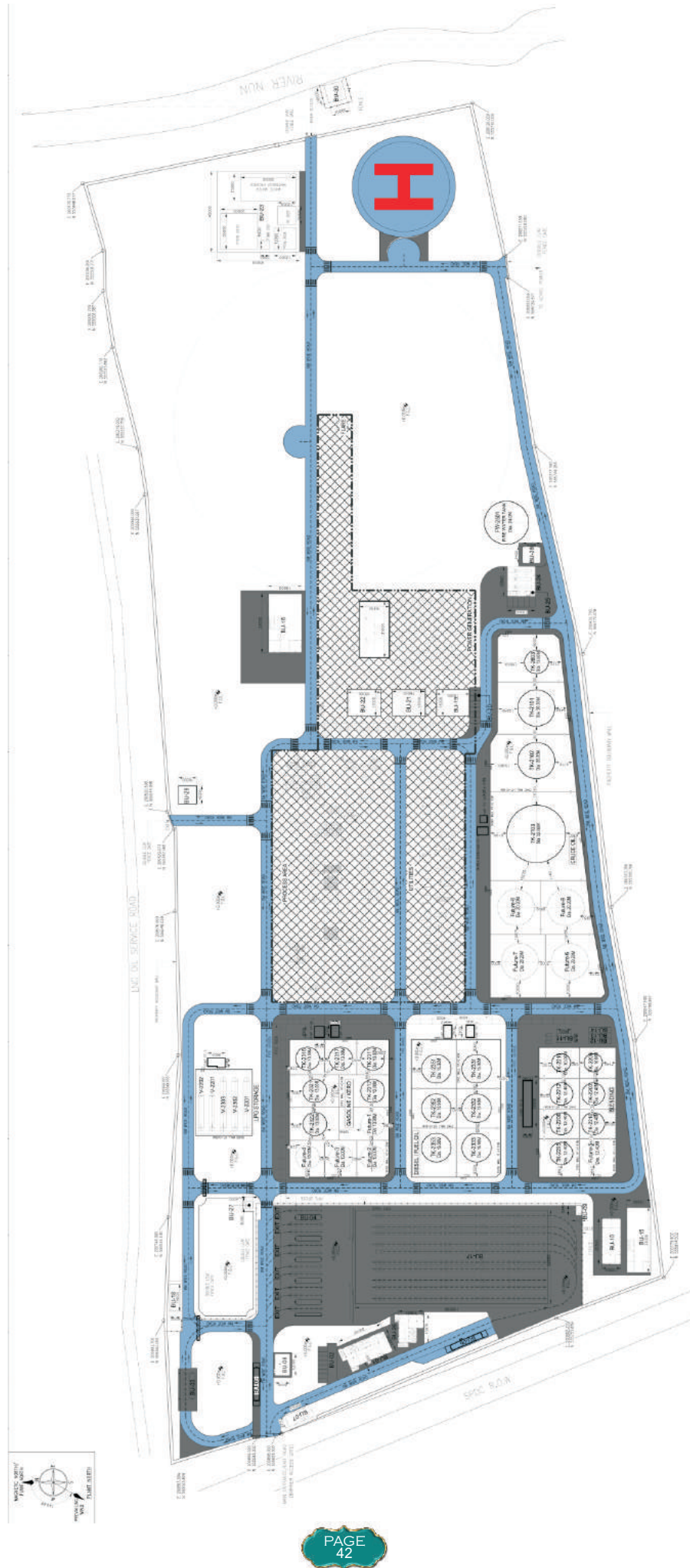
Bayelsa state though relatively young has continue to experience growth and development engineered by successive government through incremental model, however, not much has been done by the private sector prior to the building of the Azikel Refinery project.

Yenagoa city is dominated by Epie-Atissa and Ijaw People with same trade and occupation, the people are hardworking and hospitable, while the settlement in the old district area is clustered; while the new yenagoa has aesthetic structures and very serene environment.

As the state capital, commercial activities of buying and selling thrives in yenagoa, it has several road arteries that serve as linkage to the other seven council areas of the state. Bayelsa State took centre stage when oil was first struck in commercial quantity in Oloibiri, again it produced the first civilian democratically elected president of Nigeria from the South-south geo-political zone, when former President Goodluck Jonathan was elected in 2011 and history is been re-enacted as Azikel Refinery is the first private hydro-skimming refinery in Nigeria.



# REFINERY LAYOUT



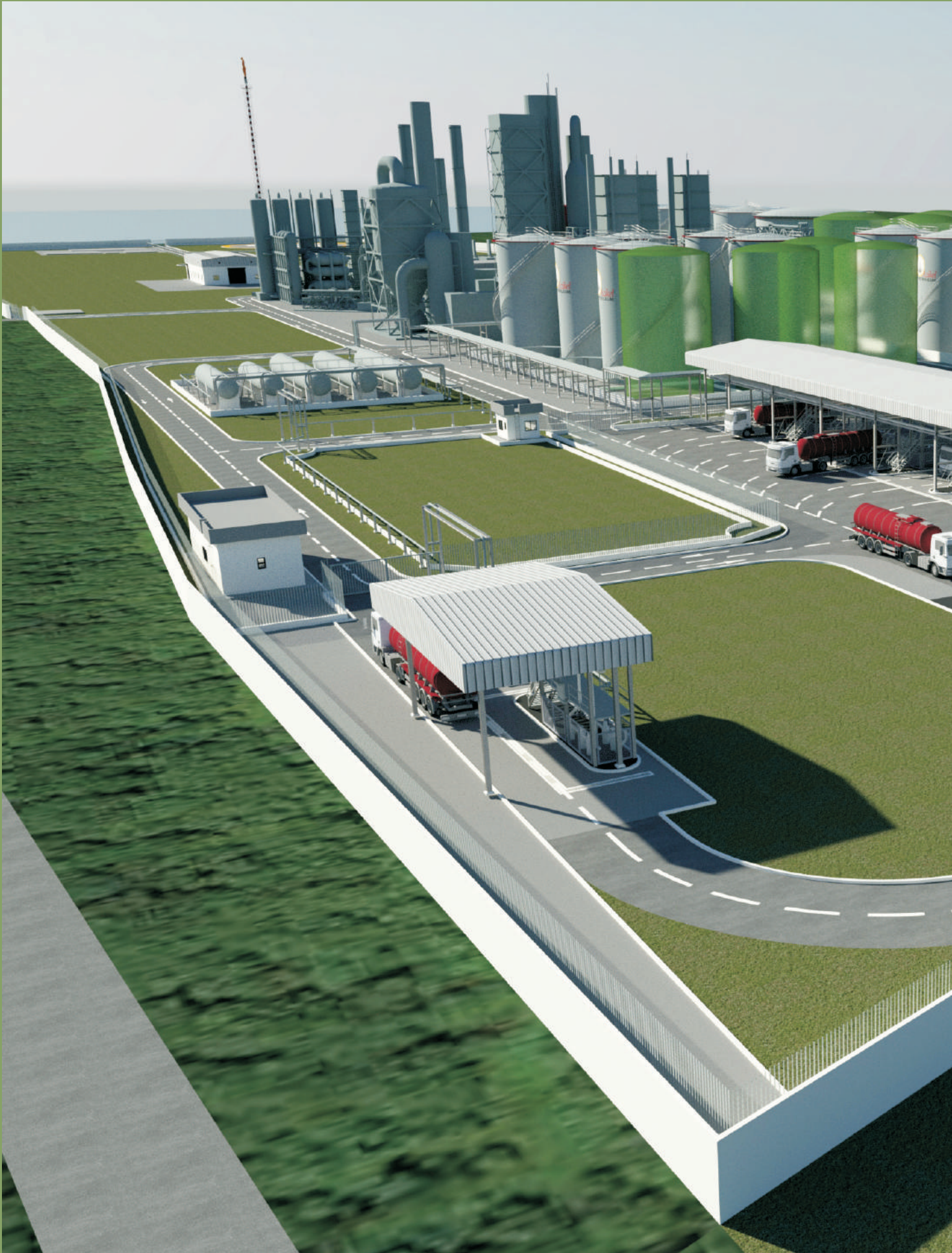
The General Arrangement Layout detailing the positions of Outside Battery Limits and Inside Battery Limits.



# *Our Destination*





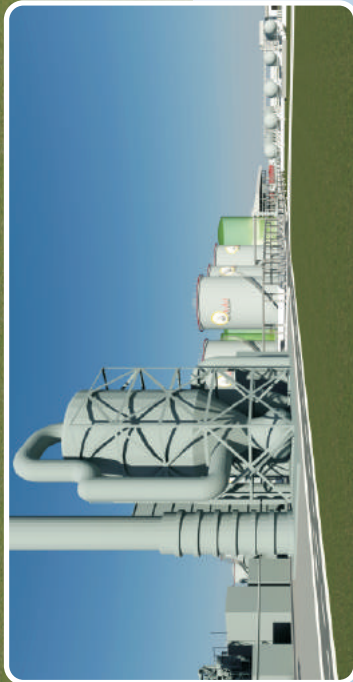
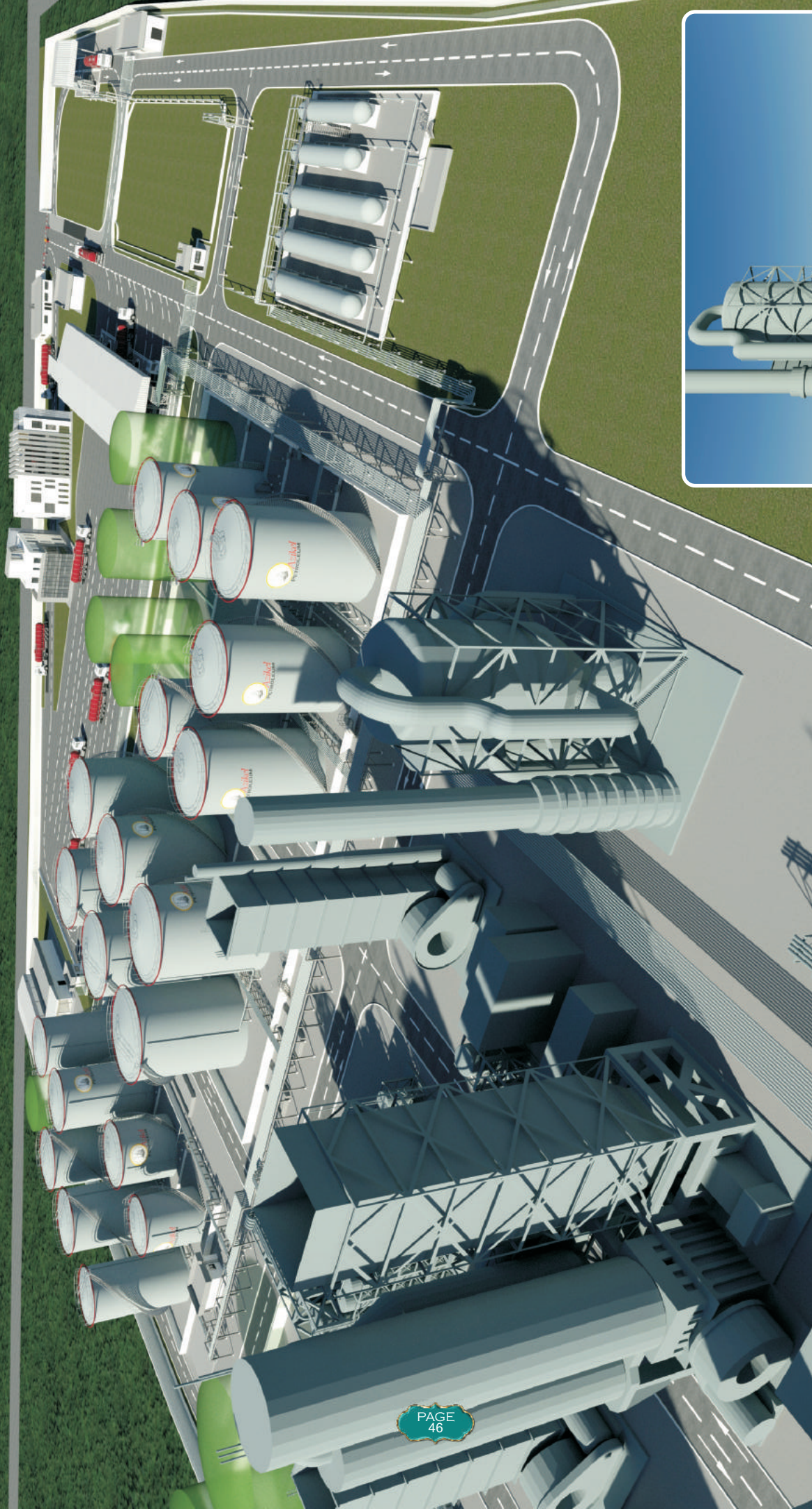




**This is Azikel Hydroskimming**  
*Refinery Plant*







**Process Modules of  
Naphtha Hydrothreater and Isomerization area of the ISBL**





**Our Storage  
capacity is  
667,500  
barrels**



32 storage tanks,  
The tanks in transparent  
green are future tanks.





*Automated multi-station loading gantry*







*Administration  
Block and  
Terminal  
Operating  
Building*





**Ventech Azikel  
Refinery Agreement  
Signing**





# Note

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# OUR PARTNERS

Azikel Petroleum understands that professionalism competence, dedication and team effort remain the keys to overall project success. The Azikel Refinery Project, has the world's best industry leaders on its team to achieve this remarkable project in Nigeria.



## BASIC EQUIPMENT

Basic Equipment is modular EPC contractor serving both upstream and downstream sectors of the Oil and Gas Industry, fabricating process equipment under ASME code standard for more than 25 years. Basic Equipment is the ISBL EPF contractor for the Azikel 12,000 BPSD Hydroskimming Refinery.



## VEPICA ENGINEERING

Vepica is a multinational engineering firm in the energy industry with over 45 years of experience with its headquarters in Caracas and Houston Texas and noted for engineering design. Vepica is nominated for the engineering designs of the Azikel Hydroskimming Refinery.



## MUC OIL AND GAS UAE

MUC is appointed the PMC and OE of Azikel Refinery and as well providing the DED and FEED for the OSBL Scope. MUC has a proven record of providing a full spectrum of services for taking a project from its initial stage and handing it over to the operations team.



## VENTECH ENGINEERING

Ventech is a full capacity engineering, procurement, fabricating and construction company located in Pasadena, Texas with a track record of designing, building and implementing modular refineries. Ventech Engineering was nominated to carry out the pre-feasibility of Azikel Refinery



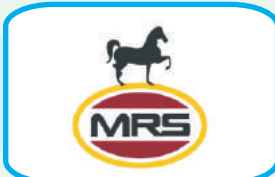
## OIL PROJECTS USA

Headquartered in Houston Texas and known for providing technical and operational execution of projects in the oil & gas and petrochemical industries worldwide. Oil Project USA is nominated to provide support for the commissioning, start-up and initial operation of the Azikel Refinery before handing over to the trained locals.



## JLS CAPITAL STRATEGIES

JLS is an independent advisory firm noted for raising capital for projects worldwide to meet credit criteria of equity and debt. JLS is the Financial Adviser to Azikel Petroleum for the Azikel Refinery Project.



## MRS OIL NIGERIA PLC

MRS is major player in the downstream sector of the oil and gas industry in Nigeria. MRS is nominated as the sole off-taker of the project's outputs of petroleum products.



## SHELL PETROLEUM DEVELOPMENT COMPANY (SPDC)

Shell is the pioneer and leader of the petroleum industry in Nigeria and operator of the SPDC /government-owned NNPC JV; providing approximately 39% of the nation's oil. Shell Gbarain-Ubie gas gathering facility and Azikel Refinery Project site share a boundary of approximately 20m distance where the feedstock for the project is sourced from.



## AXENS

Axens provides advanced technology in catalytic processes in refining and petrochemicals. Axens focuses on the conversion of crude oil, coal, natural gas and biomass to clean and refined fuel.



**For honouring our  
invitation we say**

*Thank You*

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