

# **ELYXXON ENGINEERING AND CONSTRUCTION LIMITED**

## **COMPANY PROFILE AND RESUME**

### **CORPORATE OFFICE/FABRICATION YARD:**

**ELYXXON YARD,**

**Km 15, Port International Airport Road,**

**Opposite Big Treat Plaza, Rumuodomaya,**

**Port Harcourt.**

**Tel: 0804-798267, 0803-573-1483, 0802-312-5057, 0805-487-3093,**






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# Corporate Introduction

**ELYXXON ENGINEERING AND CONSTRUCTION LIMITED** is an incorporated organization, that provides the following technical support services to the oil and gas industry.

-  Environmental, Process, and Thermal engineering services,
-  Mechanical Engineering Design and Construction,
-  Fabrication, supply and installation of process equipment, and Instrumentation.
-  Civil Engineering Construction
-  Inspection, and Corrosion Engineering services.

*ELYXXON ENGINEERING* is based in Port Harcourt, Nigeria, and employs about 24 people in its oil and gas service operations, inclusive of non permanent staff.

*ELYXXON ENGINEERING aspires to be one of the fastest growing firms among the indigenous oil and gas service organization,*

*ELYXXON ENGINEERING* provides project management, engineering, procurement and construction services for the oil & gas industry, power plants, buildings, general civil works, offshore light industry, etc.



- **MECHANICAL ENGINEERING WORKS**

- Petrochemical plants and refineries (gas treatment plants, gathering centers and pumping stations,
- bulk crude handling and storage facilities, prefabrication of piping spools, pipe supports and structural assemblies), oil loading and off-loading terminals, fabrication of platforms for off-shore facilities
- Heavy and light industrial plants
- 

- **PIPELINES**

- Water, oil and gas

- **MAINTENANCE OF MECHANICAL INSTALLATION & STRUCTURES**

- Oil refineries, petrochemical plants, offshore structures

### **Other Services Includes:**

Turnkey construction of Onshore and Offshore Oil & Gas projects including Jetties, Storage Tanks, Columns, Evaporators, Heaters, Packaged Equipment, Pipe coating, Pipe laying, and related items.

- Pilot plant studies, from initial feasibility study to full turnkey plant installation + Planned maintenance
- Project management
- Installation + Commissioning + Operator training
- Plant / Process refurbishment and overhaul + Full technical support and after sales service.

- **BUILDING & CIVIL ENGINEERING WORKS**

- Construction of Jetties, Power plants, Housing and high quality buildings including hotels, hospitals and educational institutions.
- Construction of Roads, highways, drainages, etc



De-sanding / Desludging of 25,000 barrel Crude Oil storage Tank, at Addax Izombe Flow Station

- **MECHANICAL SERVICES**

- Sand-blasting and painting of tanks and steel structures
- Pipe work (isometric) design and construction
- Oil gathering - flow stations • Gas gathering stations • Oil & gas pipelines,
- • Gas/Oil Separation plants • Oil & gas phase separation • Oil & gas dehydration
- Incinerators

➤ **EPC Activities:**

- Process
- Mechanical
- Piping
- Electrical & Instrumentation
- Civil / Structural
- Facilities Management

# Process Engineering Capabilities



## CRUDE OIL FACILITIES

- Oil Production Trains (Separators, Heater-Treaters / Dehydrators, Desanders, etc)
- Crude Oil Storage Tanks and Export Facilities
- Crude Oil Pipelines



Figure 1 API 650 STORAGE TANK ERECTION



## GAS HANDLING AND TREATMENT FACILITIES

- Gas compression systems
- Flare gas knockout vessels
- Gas transmission pipelines
- Flare auto-ignition system
- Flare stacks



- **MECHANICAL ENGINEERING WORKS**

- Prefabrication of piping spools, pipe supports and structural assemblies), oil loading and off-loading terminals, fabrication of platforms for off-shore facilities
- Heavy and light industrial plants

- **PIPELINES**

- Water, oil and gas



**Hydro-Testing of Pre-fabricated Piping Spools at ELYXXON Fabrication Yard**

**(a)**



**Above: Steel Structural Fabrication of Canopy structures for Addax Petroleum  
(b) below, commissioning of line heater Auto Ignition system at Addax Izombe flow Station**



## Key Personnel

<b>Name:</b>	<b>Engr. Felix Nwokorie (M.Sc., MNSE)</b>
➤ <b>Position:</b>	<b>Managing Director</b>
➤ <b>Qualification:</b>	<b>B.Eng., Mechanical Engineering, M.Sc., Design and Production Engineering, Member Nigerian Society of Engineers.</b>
➤ <b>Specialization :</b>	<b>Process Equipment Engineering, Thermo-fluid Engineering, Mechanical Design / Construction</b>
➤ <b>Working Experience:</b>	<b>SOAS Nig Plc 1990 – 1991 NNPC Gas Division 1991 – 1992 PZ Industries Plc, Lagos, 1992 – 1994 Boskel Nig. Ltd. 1994 – 1998 Jurak Oil Services Ltd. 1998 – 1999 Elyxxon Engineering, 1999-present Consultant to Hamacorp Oil and Gas Exploration Ltd.</b>



## Key Personnel

**Name:** Mr. Samuel Asiununkagh Etuk-Akpan

**Position:** Executive Director, Technical

**Qualification:** B. Sc. Mechanical Engineering

**Specialization:** Industrial/Env. Engineering.

**Working Experience:** Nigerian Dynamics Ltd Benin 1997-1998, HAZCON Ltd 1998 – 2011  
Elyxxon Engineering And Construction Limited (2011 Till Date).

**Name:** Mr. Akeem Olatunji

**Position:** Project Engineer

**Qualification:** B. Eng Mechanical Engineering

**Specialization:** Mechanical Construction

**Working Experience:** Standard Construction Nig Ltd, 1989 – 1993; JGC Nig. Ltd, 1993 – 1994  
Walter Smith Petromann Ltd. 1994 – 1999, Elyxxon Eng. & Const. Ltd. 1999-present.

**Name:** Mr. Uzo Ngoka

**Position:** Instruments / Control Systems Consultant

**Qualification:** B. Eng. Electrical Electronics Engineering  
M. Sc., Control System Design

**Specialization:** Industrial/Control System Engineering.

**Working Experience:** Nigerian Dynamics Ltd Benin 1993-1995,  
Summit Systems Ltd, 1995 – 2000  
Elyxxon Engineering And Construction Limited (2001 Till Date).

## HEALTH, SAFETY & ENVIRONMENT

1. Elyxxon Engineering Safety & Controls Department monitors and supports all our projects sites.
2. Elyxxon Engineering effectively implements a Standardized Project Safety Program Structure throughout all our Projects.
3. Elyxxon Engineering conforms to certification ISO 14001 Environmental Management Systems.
4. Our existing projects worked a total of 1.6 Million Man-hours without a Lost Time Accident.

Health



Safety

Environment

Zero Accidents

TOTAL (Inclusive off Non Permanent Staff) 24

## QUALITY MANAGEMENT

Elyxxon Engineering is committed to the principle of providing all their Clients with quality services/products, ensuring the achievement of the agreed specifications.

For many years Elyxxon Engineering has been operating a Quality System to ISO 9001, and ISO 9002. By so doing, we intend to remain a market leader by pursuing a program of continuous quality improvement.

## **FABRICATION FACILITIES**



Elyxxon Engineering owns and operates an engineering workshop/Fabrication yard in Port Harcourt.

## Fabrication Shop Capabilities

### MATERIALS CAPABILITY

#### PIPE

*The following pipe materials can be welded in our firm:*

ASTM A 106 GRADE B Carbon Steel  
ASTM A 335 GRADE P5 Chrome Molybdenum Steel  
ASTM A 335 GRADE P11 Chrome Molybdenum Steel  
ASTM A 333 GRADE 6 Carbon Steel Low Temperature  
ASMT SB 165 Model  
API 5L X 52 Carbon Steel  
API 5L X 60 Carbon Steel  
ASTM A 527 GRADE 50/42 Carbon Steel  
ASTM A 53 Carbon Steel  
API 5L GRADE B Carbon Steel  
ASTM A 312 GRADES 316L, 304L, 321 Austenitic Stainless Steel

## Oil & Gas Project Highlights

### STRUCTURAL STEEL

*The following steel materials can be welded in our shop:*

ASTM A 36 - ASTM A 283 GRADE C - ASTM A 516 GRADE 65 -  
ASTM A 572 GRADE 50/42 - ASTM A 285 GRADE C

Our Welding Engineering and Quality Control experts are capable of developing welding procedures to deal with any weldable material in the construction industry, including (TIG/MIG welding, SMAW welding, etc ).



## PROJECT EXPERIENCE

S/ N	CLIENT	LOCATION	PROJECT TITLE	DURATION
1	NNPC Refinery Complex (Main Contractor: IPCO WA LTD)	Eleme, Port Harcourt	Sand blasting and painting of Tanks and piping	6 months June 1999
2	NNPC Eleme Petrochemical Complex(Main Contractor: Jurak oil Ltd)	Eleme, Port Harcourt	(a) Rehabilitation of Teal Building and Structures (Polypropylene Plant) (b) Sand blasting and painting of Teal plant vessels and piping support	April – Nov 2001
3	NNPC Refinery Complex (Main Contractor: GLOFELA LTD)	Eleme, Port Harcourt	Construction of Drainage around the Pump House Area	Feb-Mar. 2002
4	NNPC Eleme Petrochemical Complex	Eleme, Port Harcourt	Procurement of Various TIG Welding consumables (for Olefins Plant Furnace Tube)	2002-2004
5	NAFCON Complex (Main Contractor: KELLOG B & R Ltd)	Onne	Procurement and Construction of 6-inch stainless steel pipe drainage	Sept 2001
6	Decon Energy Serv Ltd	Trans Amadi, Port Harcourt	Design, and construction of office block and Warehouse	June –Nov. 2004
7	Nigerian Bottling Company PLC(Main Contractor: WASOLA Ltd)	Trans Amadi, Port Harcourt	Design, construction, and erection of 4-inch SCH 150 process pipeline (For bottling plant)	Sept.-Nov. 2004
8	Shell Petroleum Dev. Co. Ltd(Main Contractor: Packlinc Ltd)	SPDC Obigbo Manifold, Kom Kom	Construction and Erection of Enhanced Manifold Caging	June-Sept. 2005
9	Shell Petroleum Dev. Co. Ltd(Main Contractor: Jurak oil Ltd)	Imo River 2 Flow Station	Design, Construction, and Installation of 16-inch Smokeless Flare Stack	Aug-Dec. 2003
10	Nigeria Agip Oil. Co. Ltd (Main Contractor: Jurak oil Ltd)	Oshie Flow Station	Design, Construction, and Installation of Twin 30-inch Smokeless Flare, Auto Ignition System and Bondwall	2000-2002
11	Addax Petroleum Development Nigeria Limited	Addax OML 124	Fabrication of Pipe clamp of various sizes,(for oil leak containment)	2004-2005
12	Addax Petroleum Development Nigeria Limited	Izombe Flow Station	Rehabilitation of Line Heater Auto Ignition System	2007

13	Addax Petroleum Development Nigeria Limited	Ossu Manifold	Ossu Wells Sand Management OML-124	Dec 07-Mar 2008
14	Addax Petroleum Development Nigeria Limited	Ossu Manifold	Sand Management In OML-124	April-June, 2008
15	Addax Petroleum Development Nigeria Limited	Izombe Flow Station	De-sanding and De-sludging of Tank 7000 barrel crude oil tank	July, 2008
16	Addax Petroleum Development Nigeria Limited	Izombe Flow Station	De-sanding and De-sludging of Tank 25000 barrel crude oil tank	Oct, 2008
17	Addax Petroleum Development Nigeria Limited	Izombe Flow Station	Rehabilitation of Auto Ignition System on the Flare Stack	Ongoing
18	Nigeria Agip Oil. Co. Ltd (Main Contractor: Glofela Ltd)	Bayelsa Community Ukparatubu	Construction of Classroom blocks	2007
19	Shell Petroleum Development Nigeria Limited (Main Contractor; Paxcy & Horsley Ltd)	Obigbo Flow Station { Field Office Complex)	Installation of Portakabins, Hard Stand & Land-scapping.	April-Sept 2010
20	Addax Petroleum Development Nigeria Limited	Izombe Flow Station	Servicing and repairs of Flame/Flashback Arrestors on Crude Oil Production Vessels	Sept/Nov 2009
	Addax Petroleum Development Nigeria Limited	OML 124	Design/Installation of Solar Powered System and Street Lighting	June- Sept 2010
21	Nigeran Agip Oil Company Limited (Main Vendor: Kronos Int'l)	Tebidaba Flow Station	Rehabilitation of Flare Stack; (including Design, fabrication, installation and commissioning of a new flare stack, together with ignition system)	June-September 2011
22	Addax Petroleum Development Nigeria Limited	Izombe Flow Station	Extension of Power Supply to Gate II	Oct-nov 2011
23	Addax Petroleum Development Nigeria Limited	OML 124	Instillation of Citadel fencing around the Ossu Manifold	Dec2011-Feb2012
24	Imo State Government, Federal Republic Of Nigeria	Owerri	Electrification of Housing Area F, New Owerri	Sept-Dec, 2009