

## ABOUT US

Encom Limited is a high technology indigenous company that was incorporated in Nigeria as a Limited Liability Company and provides services in the field of Engineering, Telecommunications and related discipline. The company is managed by highly qualified professional engineers, software experts and specialists with several years of experience both in Nigeria and Overseas. Through a unique combination of skills and experience, Encom is able to offer engineering and telecommunications services ranging from consultancy to turnkey project design, implementation and operation.

Encom has access to the specialized skills of leading experts in telecommunications and engineering in several countries to enhance its capabilities and to supplement its resources as may be required.

## **COMMITMENT**

Encom's commitment is to

- ❑ Provide products and services that conform exactly to customer requirements
- ❑ Meet those requirements without error on time and every time.
- ❑ Deliver efficient services to customers with full understanding of their needs

## **MISSION STATEMENT**

Encom's mission is to ensure that telecommunication and IT services through collaborations get to the remotest part of Nigeria and beyond.

## CONTACT US

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# PRODUCTS AND SERVICES

## ELECTRICAL POWER SYSTEM ENGINEERING

- ❑ Power Line Carrier Communications including Line Traps, LMU, TX/RX Equipment, Coaxial cable, etc supply, installation and commissioning
- ❑ Transformer, breaker, isolator, etc installation and commissioning
- ❑ Substation construction
- ❑ Tower assemble and erection
- ❑ Power Line survey and substation audit
- ❑ Line construction and conductor stringing
- ❑ Protection and control as well as metering, etc
- ❑ Rural Electrification Services
- ❑ Power system equipment maintenance
- ❑ Industrial cabling
- ❑ Residential, Street and Warehouse wiring

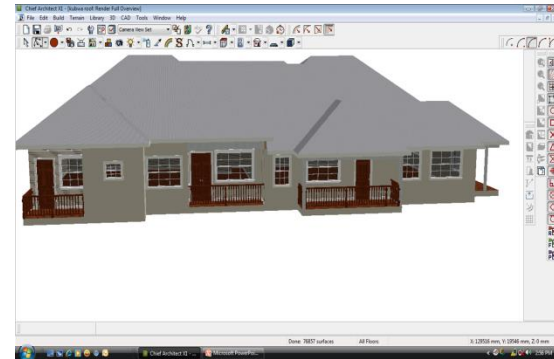


# PRODUCTS AND SERVICES

## BUILDING, CIVIL AND MECHANICAL ENGINEERING WORKS

We undertake turnkey engineering services including but not limited to the following:

- Design
- Building constructions
- Road construction
- Plumbing works
- Maintenance and Renovation works
- Compound and Floor finishing as well as painting
- Landscaping
- Architectural works

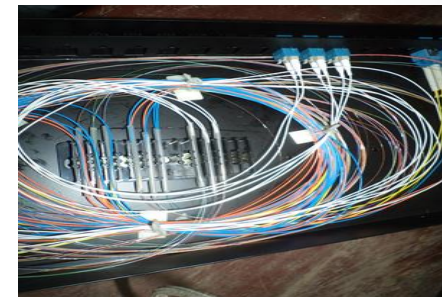


# PRODUCTS AND SERVICES

## FIBER OPTICS CABLE (FOC) DEPLOYMENT

FOC deployment for backbone (Short/Long/Extra Long/Ultra Long hauls) and City Metros. Implementation activities include but not limited to the following:

- Procurement
- Trenching and backfilling
- Ducting
- Drawing/blowing of fiber in duct
- Installation on high voltage lines (330KV, 132KV) including ADSS, MASS and OPGW
- Splicing
- Termination
- Testing
- Preparation/Installation of Hand hole
- Maintenance and relocation work



# PRODUCTS AND SERVICES

## MICROWAVE SYSTEM

We deploy point-to-point and point-to-multipoint system.

We undertake activities necessary for the actualization of a reliable microwave system such as:

- Equipment procurement
- Site survey
- Line of Sight (LOS) survey
- Path Profile and link analysis
- Antenna specification
- System design
- Installation planning
- Civil works
- Site development
- Commissioning
- Training, etc.





# PRODUCTS AND SERVICES

## VERY SMALL APERTURE TERMINAL (VSAT) Deployment

Encom deals on VSAT equipment from well-known companies all over the world. Depending on organization's need, Star, Mesh, Star/Mesh, etc networks can be installed.



## SYSTEM INTEGRATION

We will study your existing network and proffer integrating solutions that will enable new added products and features to optimize the existing system for better performance. We also carry out integration activities between an existing system or network with a new deployed system or network.



# PRODUCTS AND SERVICES

## COMPUTER SYSTEMS AND NETWORKS

We undertake the implementation of the following computer networks

- Local Area Networks
- Wide Area Networks
- Metropolitan Area Network
- Wireless Local Area Network
- Fiber Optics network links

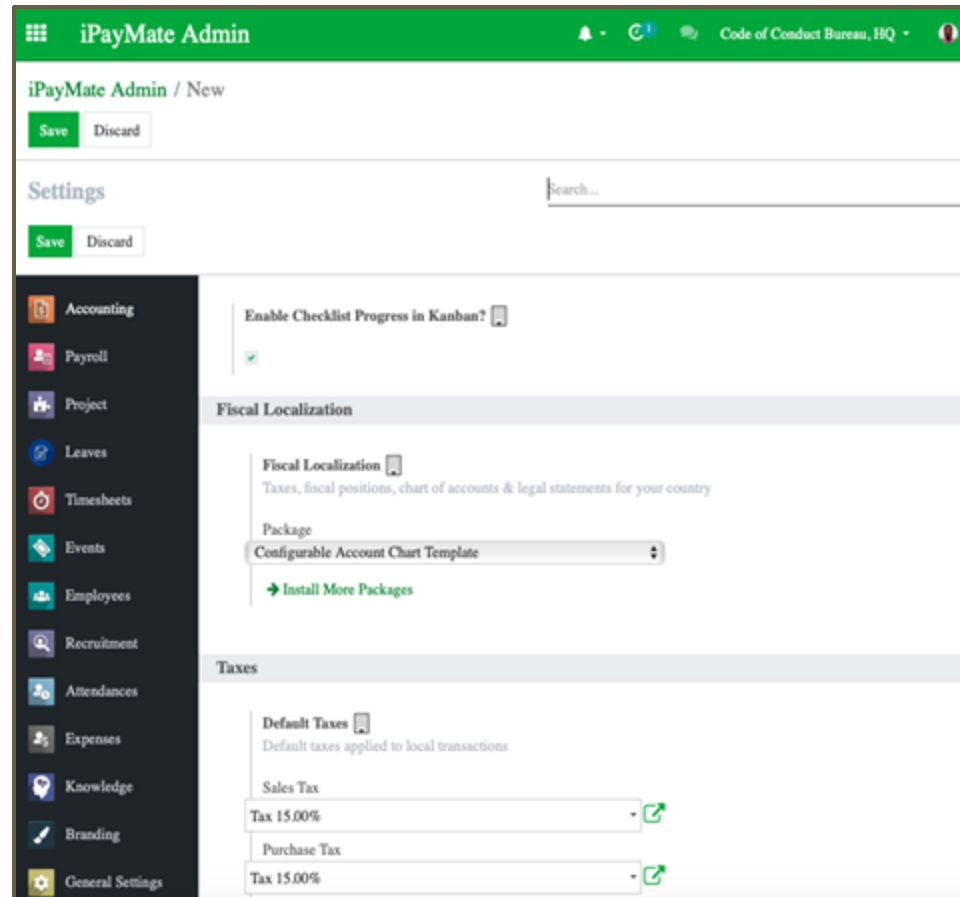
# PRODUCTS AND SERVICES

## SOFTWARE DEVELOPMENT AND DEPLOYMENT

We design and deploy Enterprise Resource Planning Software (iPayMate™) for automation of clients operations.

Depending on customer requirements, the following can be automated

- Human Resources
- Finance and Accounts
- Registry and Records
- Training



# PRODUCTS AND SERVICES

## TURN-KEY TELECOMMUNICATION STATION DEPLOYMENT

- ❑ Site Construction
- ❑ Site Access and Security
- ❑ Site Power (Transformer, Generator, etc)
- ❑ Power Protection and backup systems (AVR, UPS, Rectifier, Inverter, Battery bank, Solar system)
- ❑ Tower/Mast erection and protection (Thunder arrester, Aviation Light)
- ❑ RF system (link engineering and equipment installation)
- ❑ Premises/Equipment/Tower/Mast earthing
- ❑ Equipment shelter deployment
- ❑ Site maintenance



# PRODUCTS AND SERVICES

## MULTI-SERVICE PROVISIONING SYSTEMS

Service rendering includes SDH,PDH, SONET, DWDM for enterprise and service providers, etc.

Deployment activities include:

- Procurement
- Site Survey
- Network Design
- Installation and Configuration
- Testing and commissioning
- Maintenance Services
- Spare Stocking



**STM-1/4/16 Multiplexer Optical  
Multi-Service Provisioning Platform**



**Ultra-Long-Haul DWDM System  
(Eliminates LAs & Repeaters  
from Spans >300 km)**

# PRODUCTS AND SERVICES

## ENTERPRISE PRODUCTS AND SOLUTIONS

- ❑ Unified Communication including Call Manager Solution, Call Center, etc
- ❑ PABX System including IP
- ❑ Surveillance Security system including CCTV solutions
- ❑ Audio/Video conferencing
- ❑ Telepresence systems
- ❑ Broadband solutions
- ❑ Document Management System
- ❑ Satellite television, etc



IP Pabx/UC  
Solution



Telepresence/Video Conference  
Solution



CCTV  
Solution

# PRODUCTS AND SERVICES

## 2-WAY RADIO SYSTEMS

The common radio system we deal on from design to implementation levels includes Icom, Yeasu, Motorola, Codan, Barrett, Tait and Mac.



# PRODUCTS AND SERVICES

## POWER CONTROL SOLUTIONS

To ensure that your sensitive electronics operate at peak performance, Encom provides power products and solutions to support all of your communications needs. These products include:

- ❑ Solar power system including design, procurement, installation, commissioning and maintenance
- ❑ Battery backup system
- ❑ Inverter Systems
- ❑ Uninterruptible power systems
- ❑ Automatic voltage regulators
- ❑ Surge suppressors
- ❑ Lightning/Thunder arresters



Solar Panel



Solar Charge Controller



Inverter



battery



Solar Street Light



# PRODUCTS AND SERVICES

## CONSULTANCY SERVICES

Full range of consulting services we provide includes:

- Network design
- Contract negotiation
- Feasibility study
- Project management
- Tender document preparation and bid management
- Strategic planning
- Telecommunication auditing
- Site acquisition
- Microwave Line of Site Survey
- Construction management
- Project implementation supervision
- Training, etc

# PRODUCTS AND SERVICES

## EQUIPMENT INSTALLATION

Equipment installation activities include but not limited to the followings:

- Equipment procurement
- Site survey
- Implementation Planning
- Design
- Civil works
- Project management
- Grounding and Protection
- Equipment setup, testing, commissioning

# PRODUCTS AND SERVICES

## EQUIPMENT MAINTENANCE

Equipment after installation and commissioning needs periodic maintenance in order to:

- Prolong the lifespan.
- Improve staff productivity
- Reduce man-hour loss
- Detect early malfunction and faults

Encom provides the following maintenance services:

- Daily routine maintenance
- Quarterly Preventive maintenance
- Annual Maintenance checks
- Corrective maintenance
- Call Out Maintenance Service
- Technical Support
- Spare stocking

# PRODUCTS AND SERVICES

## INMARSAT SYSTEMS

Inmarsat types B, Mini M, M4, RBGAN (Inmarsat terminal used mainly for data and Internet access) and Inmarsat Fleet from JRC, NERA, Thrane & Thrane, and Anritsu are the Inmarsat terminals we supply, install, commission and maintain.



## CLIENTELE

Encom has provided services for the following companies

- a) Nigerian National Petroleum Corporation (NNPC)
- b) CITCC Nig. Limited
- c) CCECC Nig. Limited
- d) Abuja Municipal Management Council (AMMC), FCTA
- e) Code of Conduct Bureau
- f) Nigerian Educational Research and Development Council (NERDC)
- g) West African Seasoning Co. Limited
- h) INEC
- i) Federal Roads Maintenance Agency (FERMA)
- j) Gizzini International Limited
- k) Bedding Holdings Limited
- l) Computer Warehouse Group
- m) Ad-Alloy Precision Man'f Limited
- n) Adorbel Nigeria Limited
- o) TTI Limited
- p) PPC Limited
- q) Julius Berger Nig. Ltd
- r) Zadub Engineering Limited, etc
- s) Dantata and Sawoe Nigeria Limited

## Electrical Power System

- a) Erection Activities (Installation of Line Traps, Line Matching Units, Coaxial cables and termination to PLC equipment, fiber optics approach cable installation for SDH equipment , splicing and termination in Patch panels, integration activities) in 13 TCN Switchyards for PPC Limited – August 2008 to Date
- b) Routine Maintenance and Security of Street Lights in Central Business District and Embassy Zone, Abuja for FCTA/AMMC –Ongoing, June 2017
- b) Relocation of High Tension Electric Cables along the Railway Corridor of Abuja Rail Mass Transit Project for CCECC Nig. Limited – Oct 2014-June 2015
- b) Installation of ADSS Fiber Optic cable on Ajah – Egbin 330KV transmission line, a distance of 19Km for PPC Ltd - Ongoing
- c) TCN Power lines survey and audit of power station facilities and substations preparatory for Fiber Optics Cable deployment on High Tension (330KV and 132KV) lines throughout Nigeria for Alheri Engineering Co. Ltd, a subsidiary of Dangote Group. July – August 2006

# EXPERIENCE

## Radio System (Backhaul) Deployment

(a) Turnkey relocation of 2 NITEL/MTEL GSM and CDMA Radio base stations along Airport road, Abuja for Julius Berger Nig. Ltd. Nov. 2009 to March 2010

(b) Installation of BTS, Generator and Microwave radio system for CITCC at Yobe, Zamfara, Katsina, Kano, Akwa Ibom, Edo, Anambra, Ebonyi and Rivers States. Sept. 2011 to April 2013

(c) Installation of BSC (Switch room) equipment in Akwa Ibom for CITCC Nig. Ltd  
Dec 2011 to April 2013.

(d) Transfer of radio services including link commissioning from decommissioned Masts to Towers in four NNPC Locations in Lagos  
September 2018.



# EXPERIENCE

## Fiber Optics Backbone Infrastructure

- 1) Installed fiber optics cable backbone infrastructure for NNPC depots in Mosimi, Warri, Benin and Kaduna . Dec. 2005 – February 2006.

Activities carried out included:

- ❑ Soil excavation and backfilling including concreting where necessary.
- ❑ Ducting and fiber optics cable drawing.
- ❑ Fiber splicing and termination in patch panels.
- ❑ Installation of fiber transceivers
- ❑ optimization of the existing LAN at the locations and replacement of Hubs with switches
- ❑ Connection of the LAN to the Fiber Optics Network
- ❑ Integration of the entire system to the VSAT equipment via router for Wide Area Network (WAN) connections
- ❑ Performed fiber link test, LAN connectivity test and WAN test

- 2) Repair of damaged Fiber Optics cable at NNPC depot, Mosimi. - April 2007

Activities included: provision of 4 core single mode fiber optics cable, underground joint closures, underground iron protection sleeves, PVC ducts, galvanized steel pipes, excavation, backfilling and compaction, casting, fiber jointing and link tests

# EXPERIENCE

## VSAT System

- 1) Relocated VSAT Remote Station from old site to new site at Bonny Oil Terminal for NNPC. June 2011
- 2) Reactivated VSAT Remote stations at Biu, Maiduguri and Zaria locations for NNPC. August 2011
- 3) Frequency realignment of VSAT Remote stations in Warri Telecom Area for NNPC. July 2011
- 4) Supply and Installation of 150Watts C-Band SSPA for Hub operation for NNPC. February 2012
- 5) Supply, installation and programming of Control Channel Module Controller for Hub station for NNPC. February 2012
- 6) Gilat Faraway VSAT Network relocation from Intelsat 801 to Intelsat 707 for NNPC. NNPC VSAT is made up of 2 Hub stations, 6 Nodal stations and 50 remote stations. The relocation involved frequency change and parameters programming based on SSOG from Intelsat, antenna movement from Intelsat 801 location to Intelsat 707 locations, testing and commissioning. Dec. 2008 to March 2009
- 7) Reactivated VSAT stations in Ore, Ilorin, Calabar, Atlas Cove, Egbin, Calabar and Ewekoro Depots for NNPC, June to July 2009
- 8) VSAT Internet connection for the following:
  - ❑ Nigerian Educational Research and Development Council (NERDC) - 2008
  - ❑ Bill Bisad Firm Ltd - 2007

# EXPERIENCE

## Multiplexing Equipment

Supply and installation of RAD Optimux-108 E1 and Ethernet fiber multiplexer for locations in Kaduna Telecom Area. Work scope included equipment and installation materials procurement, installation, configuration and integration to the existing Pabx systems as well as testing. NNPC

## Surveillance Security System

1. Supply and installation CCTV system for The PrimeRose International Academy for the School surveillance July 2019
2. Encom designed, supplied and installed surveillance security system (CCTV cameras, Monitor) for West African Seasoning Co. Ltd. for monitoring of various sections and production activities in the factory. (2003, 2004)

## VPN Security

Procured, installed and configured CISCO security bundle router (1841) and security bundle firewall (506E) for INEC's 13 State offices (Lagos, Enugu, Abeokuta, Benin, Asaba, Awka, Abakaliki, Umuahia, Owerri, Yenagoa, PH, Uyo, Calabar). The project aimed at protecting the commission's data and sensitive information against Internet threats during remote access. A subcontract from Proper Communications Ltd. (2005)

## Equipment Installation

Encom Ltd as one of AD-Alloy contractors, project managed the entire HF Radio Voice/Data project for INEC and participated in the equipment installation and commissioning of fixed stations in 8 INEC State offices (FCT, Benin, Asaba, Awka, Enugu, Abakaliki, Owerri, Umuahia) and 6 fixed stations and 2 mobile stations in the Headquarters. (2002-2003)

# EXPERIENCE

## Equipment Maintenance

Telecom facilities maintenance for NNPC Port Harcourt Area – September 2008 to 2010  
Help Desk, daily maintenance and quarterly maintenance services are provided for all telecom facilities including VSAT, Radios, PABX systems, power control equipment, local line plants, etc

## Solar Power System

- 1) Installed 5KVA Solar power system for Nigerian Educational Research and Development Council. February 2008
- 2) Resuscitated Solar power system for NNPC Afam Gas Station for Zadub Engineering Ltd – February 2010

## Consultancy

### (a) Telecommunication Audit

Encom participate the technical audit of the network of the following companies

- ❑ NNPC (VSAT Network) 2000
- ❑ NPA (Telecommunications Network) 2001
- ❑ Nigerian Railway Corporation (Microwave Radio Network) 2002
- ❑ INEC (Telecommunications and Computer networks) 2001

### (b) Network Design/Supervision

- ❑ NNPC (VSAT Network)–Network design and installation supervision. 2001
- ❑ NAMA (SATCOM Network) – Optimization supervision. 2001
- ❑ ABU Zaria (VSAT Internet and WLL) – Network design and installation supervision. 2002

# EXPERIENCE

## Computerization of INEC Polling Units

Encom Ltd as part of Adorbel subcontractors provided managerial, planning, coordination and supervisory activities for the actualization of INEC Pooling Units computerization project. Job scope included the collection of polling unit data (GPS information, digital image capture and descriptive information), data collation and population in the zonal server as well as field supervision. ( March – Sept. 2004)

## Bid Document Preparation/Response and Evaluation

- ❑ Alheri Engineering Co. Ltd (NEPA FOC Commercialization Expression of Interest and Response to Tender packages respectively). Oct 2004 – April 2005)
- ❑ ABU Zaria (VSAT Internet Connection/Wireless Radios for Cyber Cafe). 2002

## Training

- ❑ ERP Training for Code of Conduct Bureau – September 2019
- ❑ INEC (Codan NGT HF Radio technical and Operation Training for Engineers and Operators) 2013
- ❑ Nigeria Immigration Services (Codan NGT HF Radio Operation and Maintenance Training. Sept. 2011 - June 2012
- ❑ Hexton Ltd (Network Security Training – INEC Staff). April 2005
- ❑ Codan NGT HF Radio Operation Training) 2003

## Licensing

- ❑ Alheri Engineering Co. Ltd (NCC Long Distance Operator License) 2005
- ❑ Shell (Inmarsat) 2000
- ❑ Japan Gas Company (JGC) Ltd (INMARSAT) 2000
- ❑ West African Seasoning Co. Ltd (Inmarsat) 2000

# EXPERIENCE

## Towers and Masts Deployment

- ❑ 6Nos 45m Towers for NNPC Locations in Lagos – Dec 2017 to September 2018
- ❑ 2Nos 45m mast for radio repeater antenna (AMMC, Abuja) – Dec 2010-Jan 2011
- ❑ 2Nos 43m Tower Relocation (Julius Berger Nig. Plc). Nov.2009 – March 2010
- ❑ 45m Mast Relocation for Dantata and Sawoe Nig. Ltd. April 2010
- ❑ 3Nos 36m masts for radio repeaters (INEC state offices in Enugu, Abakaliki, Owerri)

## 2-Way HF/VHF Radio Communication

- ❑ Reactivation of HF Radio for INEC HQ and FCT Office Dec 2012 – Jan 2013
- ❑ Abuja Municipal Management Council (AMMC), FCDA-(VHF Radio Supply and Installation). Dec. 2010 – January 2011
- ❑ INEC - Reactivation of HF Radio. 2007
- ❑ INEC – Reactivation of VHF Radio. 2007

## Networking (LAN)

Deployed advance LAN infrastructure for the following companies:

- ❑ Upgrade of LAN Infrastructre at INEC Training and Electoral Institute, Abuja-Dec 2015 – Feb 2016
- ❑ NNPC Telecom Center, Warri – October 2008
- ❑ NNPC Telecom Center, Port harcourt – October 2008
- ❑ Installed LAN in INEC Zonal Processing Centers in Enugu, Abakaliki, Port Harcourt and Minna (2005)

## PABX System

Supplied, installed and commissioned digital Pabx system for the following:

- ❑ West African Seasoning Co. Ltd., Lagos, 2006
- ❑ Magnet Communications Ltd, Lagos: Ekiti State Governement House), 2007

## INMARSAT System

Supplied, installed and commissioned JRC, NERA, Thrane & Thrane Inmarsat equipment for the following companies.

- ❑ West African Seasoning Co. Ltd., Lagos
- ❑ INEC Headquarters, Abuja on behalf of Bedding Holdings Ltd