



**SDEM
ERECTORS
NIGERIA**

STEEL FABRICATION, ERECTION & CIVIL CONSTRUCTION PROFILE





ABOUT US



**SDEM
ERECTORS
NIGERIA**

SDEM Erectors Nigeria Limited (SDEM) is an energy, industrial and infrastructure construction company specializing in electro-mechanical services, civil and structural construction, steel fabrication, steel structures and industrial equipment erection, operations and maintenance of industrial and energy plants.

ABOUT US

SDEM ERECTORS NIGERIA LIMITED



- **1981:** SDEM was founded in Nigeria as the installation arm of the GEC- Alstom Group of France.
- **2004:** 90% of SDEM was acquired by a Nigerian group with the French retaining only 10%.
- **2011:** SDEM became management owned through an MBO supported by investor group.
- **Key sectors:** Power, Oil and Gas, and Industrial & Public Infrastructure.
- **Core competence:** Structural Steel Fabrication & Erection, Power Plant, Mechanical & BOP Erection; Piping Network & Spools Fabrication & Installation

Key Sectors



OUR SERVICES

We are an energy, industrial, and infrastructure construction company.



ELECTRO-MECHANICAL SERVICES



ERECTION SERVICES



CIVIL & STRUCTURAL SERVICES



PIPING SERVICES



FABRICATION SERVICES



OPERATIONS & MAINTENANCE

Our Achievements in Numbers

COMPLETED
PROJECTS

500+

DELIVERED

HUMAN
RESOURCES

300+

QUALIFIED
MANPOWER

PROFESSIONALISM

42

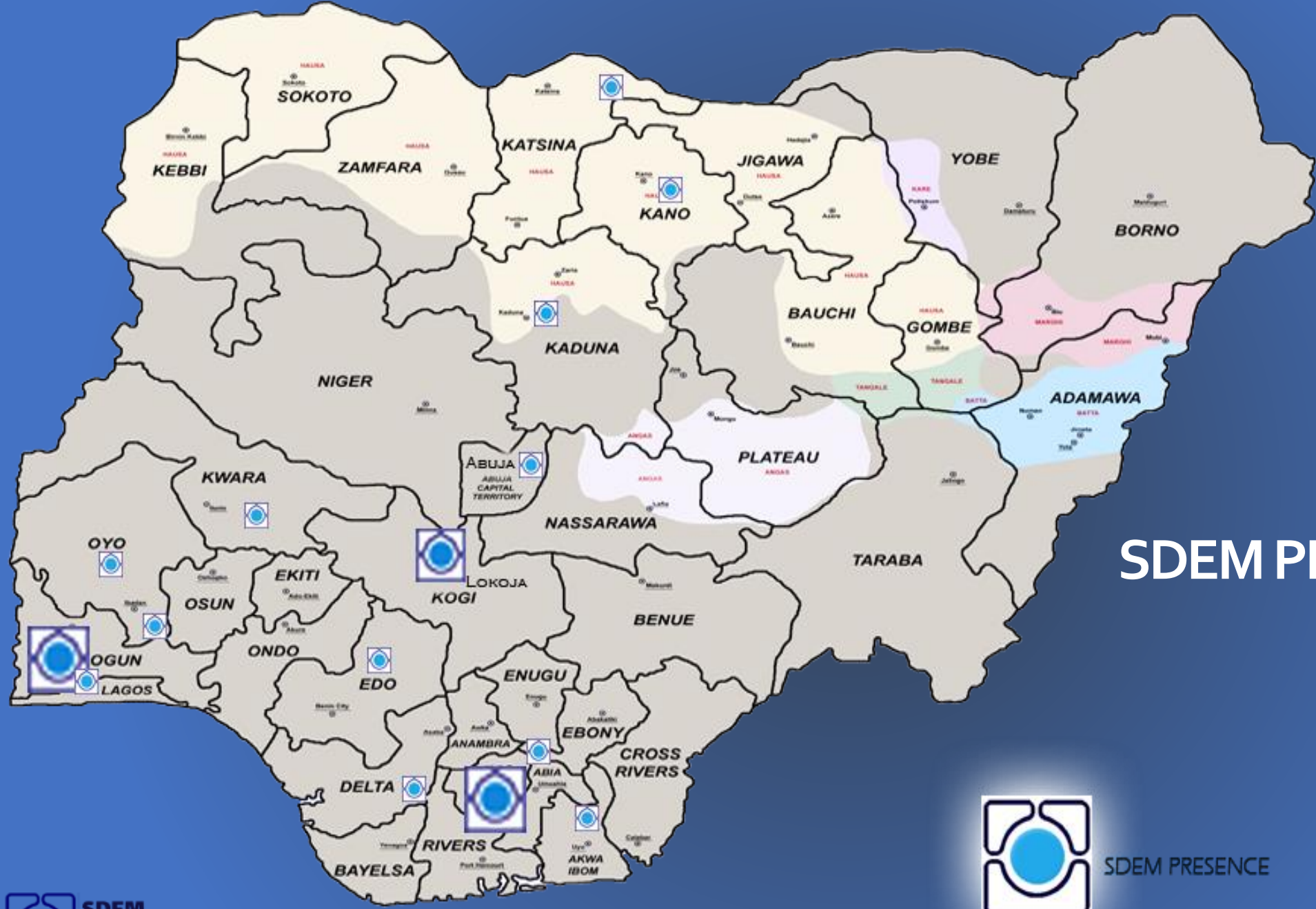
YEARS OF
EXPERIENCE

WORK

COVERAGE

36

STATES IN
NIGERIA



SDEM PRESENCE IN NIGERIA



SDEM PRESENCE

OFFICES



Lagos

Head Office

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Email: sdem@sdem.com;



Ajaokuta

Fabrication Yard

Ajenco, Ajaokuta,
Kogi State,
Nigeria.

Tel: +234 58 400402



Port Harcourt

Fabrication Yard

Plot 71 Trans Amadi Industrial Layout,
Port Harcourt,
Rivers State,
Nigeria

Tel: +234 84463863, +234 463686

Email: malawode@sdem.com.

Contact : Mike Alawode
[Tel: + 234 806 3737127]

SDEM YARD CAPACITY

- Type of Structure : Prefabrication of Steel structures made from:
 - Built up section's stanchions,
 - Beams,
 - Pipes,
 - Steel roof structures,
 - Walkway,
 - Bridges for Industrial complex,
 - Facilities Shelters such as
 - Office Complex,
 - Airport Hangars/Structures
 - Flow stations,
 - Gas Plants,
 - Power Plants etc,



SDEM YARD CAPACITY

- Steel platforms including:
 - Stairs,
 - Gratings,
 - Ladders,
 - Hand-rails and
 - Safety cages finished to the required surface preparation and coating specifications.
- Piping Spools Pre-Fabrication:
 - Carbon,
 - Stainless
 - and Alloy steel
- Storage Tanks – Plate rolling machine 8mm thick/2.5m wide.





AJAKUTA BASE & FABRICATION YARD

- The Ajakuta yard is a first-class facility built more than 30 years ago situated in a peaceful and serene environment
- It is about 15,000 sq m of yard space situated on the main Ajenco road with more space for future expansion.
- Over 4000 sq m (112m x 36m x 10m high) covered 4-bay fabrication shed with 5-ton overhead cranes in each.



AJAKUTA BASE & FABRICATION YARD

Equipment

Main equipment in the yard:

- Lathe machines,
- Milling machines,
- Drilling machines,
- Shearing machines,
- Grinding machines,
- Plate rolling machines
- Threading machines.

Other plants in the yard are:

- Over 50 welding plants (Electric/ Diesel powered),
- Oxy-acetylene and plasma cutting table,
- Hydraulic press,
- Blasting and painting equipment.

Fabrication Yard



SDEM'S FABRICATION CAPABILITIES



Our fabrication capabilities include:

- Jackets, tripods, & pipe spools
- Manifolds & skidded packages
- Pipe Bridges and steel framed structures
- Palisade fencing and structural steel members
- Stainless and duplex steel piping in process plants
- Storage tanks and piping for both water and gas pipelines
- Miscellaneous steel structures – steel doors and frames, hand rails, agricultural tools, and implements
- Design and manufacture of steel container buildings for temporary office and construction camp facilities

FABRICATION PROJECT TYPES

SDEM has undertaken various fabrication services in projects such as:

- Stadium steel structures
- Power plants & mining plants
- Breweries and bottling plants
- Oil & gas flow stations and facilities
- Shopping complex steel structures
- Industrial buildings and warehouses
- Aircraft hangars, airport buildings and control towers



SDEM'S ERECTION CAPABILITIES



SDEM manufactures and erects various steel structures and embedded parts. Our erection capabilities include:

- Steel structures & portal frames
- Penstocks, water gates & trash racks
- Gantry cranes
- Industrial equipment and machinery
- Cast iron and stainless steel piping
- Storage tanks
- Silos

ERECTION PROJECT TYPES

SDEM has handled erection projects such as:

- Steel structures in thermal & hydro power plants
- Penstocks, water gates, stop logs and trash racks in hydro power projects and dams
- Stainless steel piping in breweries & process plants
- Balance of plant piping for gas, water and lube oils in power plants
- Steel structure and roofing in various building and auditorium projects
- Steel structure erection and heavy equipment installation in mines



ERECTION PROJECT TYPES Contd.

- Steel structure and portal frames erection in Airport Projects
- Gantry cranes in hydro and thermal power projects
- Cast iron piping for major public water supply and irrigation networks
- Steel structure and roofing in stadium projects
- Storage tanks for raw water in thermal power plants and public water systems
- Steel structures and roofing for various industrial buildings and warehouses
- Industrial equipment installations in breweries and bottling plants



CIVIL CONSTRUCTION CAPABILITIES



SDEM offers unparalleled experience and expert delivery across all related civil infrastructure services.

Our project scope and capabilities include civil and structural steel construction and erection projects such as:

- Stadium & shopping complexes
- Aircraft hangars, aircraft buildings and ancillary services
- Mining sites
- Industrial and office buildings
- Warehouses & factories
- Dams & Irrigation Projects
- Soil and Concrete Laboratory Testing

CONSTRUCTION PROJECT TYPES



PROJECT REFERENCES

STEEL FABRICATION
ERECTION
CONSTRUCTION

NIGERIA LIQUEFIED NATURAL GAS LIMITED (NLNG) TRAIN 7 PROJECT

2023 – To Date

SCOPE

Supply of galvanised steel structures involving: design, procurement, fabrication, galvanizing for pipe racks, platforms and ladders.



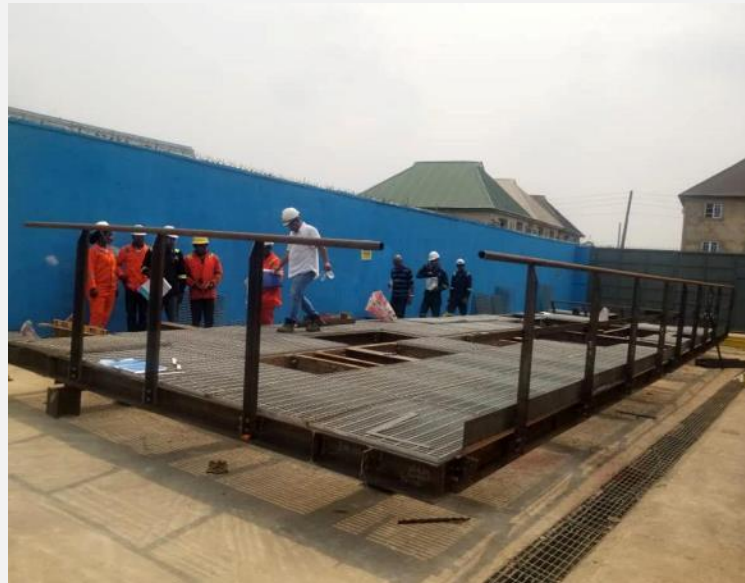


NIGERIA LIQUEFIED NATURAL GAS LIMITED (NLNG) TRAIN 7 PROJECT

(2023 – To Date)

Work Details

1. Fabrication of 800mm diameter exhaust duct
2. Fabrication of other sections of the exhaust duct Vessel access platform for NLNG T7 Project.



NIGERIA LIQUEFIED NATURAL GAS LIMITED (NLNG) TRAIN 7 PROJECT

(2023 – To Date)

Work Details

1. Vessel access platform for NLNG T7 Project
2. Vessel platform for NLNG T7 Project.
3. Trial fitting in progress for one of vessel access platforms
4. Fabricated and fitted Vessel access platform



NIGERIA LIQUEFIED NATURAL GAS LIMITED (NLNG) TRAIN 7 PROJECT

(2023 – To Date)

Work Details

1. Circular vessel access platform.
2. Square like vessel access platform fitted and ready for welding.
3. Trial assembled Vessel access platform with grating and handrails
4. Sample gantry fabricated, and trial assembled before welding.



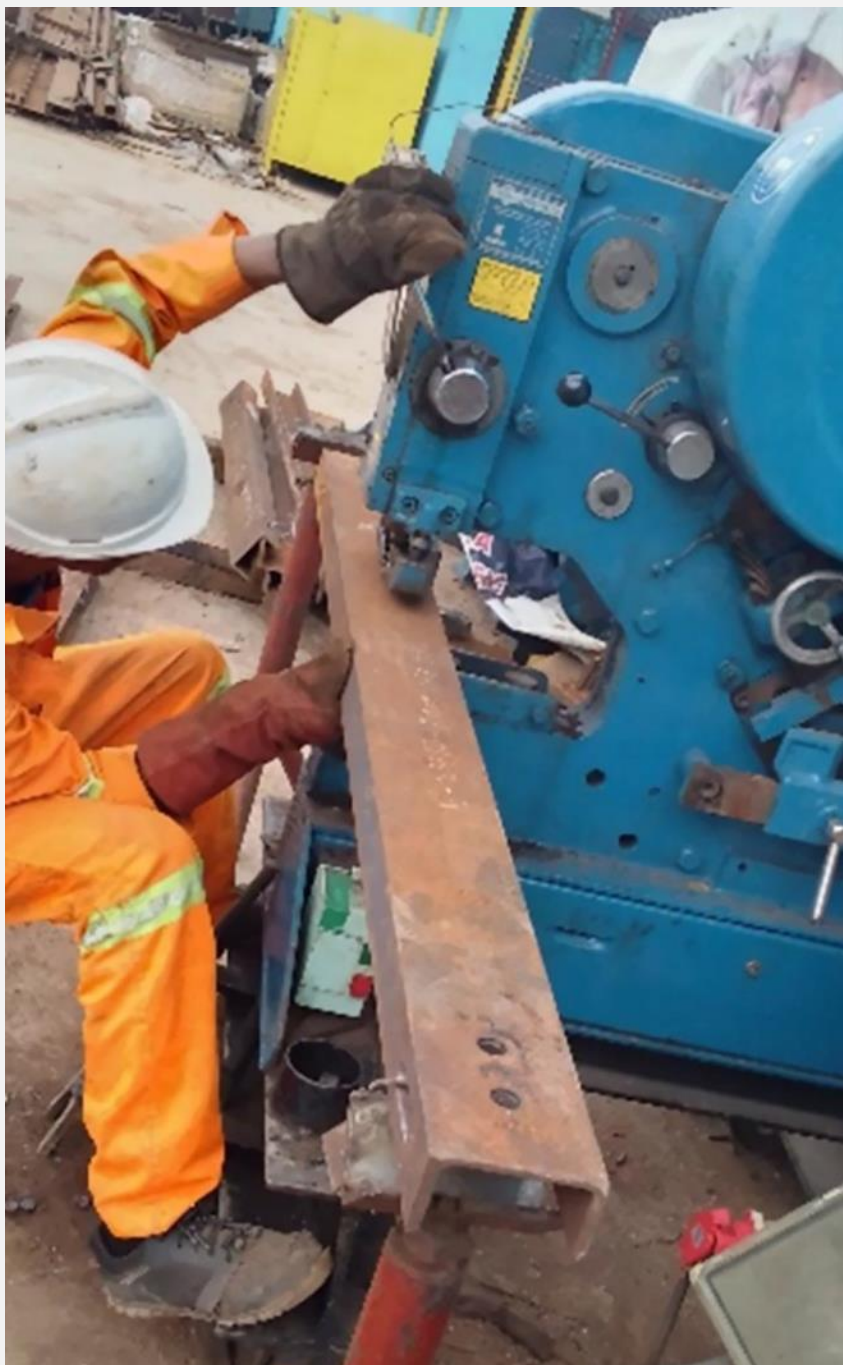
NIGERIA LIQUEFIED NATURAL GAS LIMITED (NLNG) TRAIN 7 PROJECT

(2023 – To Date)

Work Details

1. Fabrication of 60 storage pallets.
2. U beam rolled to shape.
3. Holes punching using punching machines





NIGERIA LIQUEFIED NATURAL GAS LIMITED (NLNG) TRAIN 7 PROJECT

(2023 – To Date)

Work Details

1. Punching and drilling of holes.
2. Steel sections rolling.
3. Fabricated and galvanised ladders and platforms on site at Bonny Island.

AMA BREWERY ENUGU

HDPE WATER PIPELINE CONSTRUCTION

2021 – 2023



AMA BREWERY ENUGU

(2021 – 2023)

Work Details

- HDPE Water Pipeline Construction.
- Underground Piping Activities.



Excavation of trench for HDPE water pipeline using sdem excavator



Prepared excavated trench surface ready to receive HDPE water pipe



Butt fusion joint welding of HDPE water pipes



HDPE pipes layed and connected to chamber



Pressure testing of welded HDPE pipes



HDPE water pipe layed in prepared trench

NIGERIAN BREWERIES LIMITED

2022





NIGERIAN BREWERIES LIMITED, CONSTRUCTION WORKS

AMA- ENUGU STATE

(2022 - Completed)

SCOPE

1. Creation of 9000m²
Hardstand Area Project



NIGERIAN BREWERIES LIMITED, CONSTRUCTION WORKS

AWO-OMAMA

2022

SCOPE

1. SILO Modification Project.

34MW-LM2500 NOTORE CHEMICAL INDUSTRIES POWER PLANT EXTENSION.

- 2021 - 2022



34MW-LM2500 NOTORE CHEMICAL INDUSTRIES POWER PLANT EXTENSION

HDPE UNDERGROUND PIPING ACTIVITY

(2021 - 2022)

SCOPE

1. HDPE Underground Piping Activity





34MW-LM2500 NOTORE CHEMICAL INDUSTRIES POWER PLANT EXTENSION

(2021 - 2022)

SCOPE

1. BoP Equipment placement.
2. Electrical, Mechanical), Steel Works & BoP Piping.
3. Erection of LM2500 Loose Members, MV/LV & Signal Cables.
4. Fabrication and Installation of steel gantries for BoP routing and Cable Race way.
5. Commissioning Supports.



34MW-LM2500 NOTORE CHEMICAL INDUSTRIES POWER PLANT EXTENSION

(2021 - 2022)

Mechanical Erection of
2 Nos LM2500 and BoP
Piping / Equipment.



BUA CEMENT POWER PLANT PROJECT, UKPELLA, EDO STATE.



28MW-SGT700 BUA-OBU POWER PLANT EXTENSION

(2017 - 2019)

SCOPE

1. BoP Equipment Sizing /Design.
2. Electrical, Mechanical, Steel Works & BoP Piping.
3. Erection of SGT700 Loose Members, MV/LV & Signal Cables.
4. Fabrication and Installation of about 240tons of steel gantries for BoP routing and Cable Race way.
5. Commissioning Supports.





BUA CEMENT 3×5 GT500 POWER PLANT PROJECT, UKPELLA, EDO STATE (LINE I)

2014 – 2015

SCOPE

1. Installation, erection and commissioning of 3×5 GT500; Balance of Plant (BOP) for 3×5 GT500.
2. Installation of Mechanical Equipment, Electrical Works & BoP Piping Works.



500MV (NIPP) POWER PLANT FOR NDPHC MARUBENI CALABAR

- 2017 - 2018





535MW LOT 1 CALABAR POWER PLANT

2017 – 2018

SCOPE

1. Equipment shelter cladding works (2017 - 2019)
 - Total Surface Area: 3752m²
 - Total Weight of Steel Works: 90tons



500MV (NIPP) POWER PLANT FOR NDPHC MARUBENI CALABAR

2017 – 2018

SCOPE

Procurement, fabrication, installation, cladding and erection of 500MV Power plant.

GEREGU (PHASE II) – 434 MW POWER PLANT (3 X GAS TURBINE)

- 2011 - 2013





GEREGU (434MW) GAS TURBINE POWER PLANT contd.

2011-2013

SCOPE

1. Turbine/ Generator Positioning.
2. Generator/ Alternator Coupling.





GEREGU (434MW) GAS TURBINE POWER PLANT contd.

2011-2013

3. Diffuser Shell assembly.
4. Combustion Chamber Installation.



GEREGU (434MW) GAS TURBINE POWER PLANT contd.

2011-2013

- 5. Exhaust Stack Erection.
- 6. Erection of Air Intake .





GEREGU (434MW) GAS TURBINE POWER PLANT contd.

2011 - 2013

SCOPE

- 7. BOP Installation (Gas Skid)
- 8. Piping (32" Gas Pipeline)





GEREGU (434MW) GAS TURBINE POWER PLANT contd.



9. BOP Installation (Cooling Water System).

10. Tank Fabrication & Erection.



EWEKORO 110 MW GT POWER PLANT PROJECT AT WAPCO CEMENT, OGUN STATE

- 2010 - 2011





EWEKORO 110 MW GT POWER PLANT PROJECT AT WAPCO CEMENT, OGUN STATE. Contd.

2010 - 2011

SCOPE

1. Lafarge Ewekoro
W18V50DF (100MW)



EWEKORO 110 MW GT POWER PLANT PROJECT AT WAPCO CEMENT, OGUN STATE. Contd.

2010 - 2011

SCOPE

1. W18V50DF Power Plant
Radiator Cooling Water
System



GEREGU (PHASE I) – 414 MW POWER PLANT (3 X GAS TURBINE)

- 2005 -2008





GEREGU (Phase I) – 414 MW Power Plant (3 X GAS TURBINE). Contd.

2005 -2008

SCOPE

1. Generator & Turbine Base Checks.



GEREGU (Phase I) – 414 MW Power Plant (3 X GAS TURBINE). Contd.

2005 -2008

2. Erection of Generator & Turbine

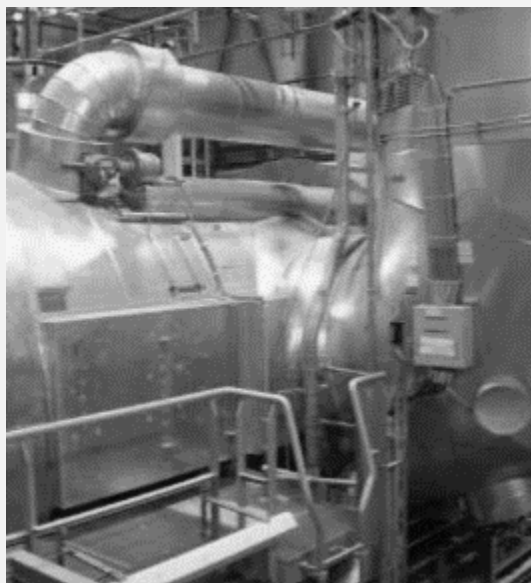




GEREGU (Phase I) – 414 MW Power Plant (3 X GAS TURBINE). Contd.

2005 -2008

3. GT/ Combustion Chamber Insulation.
4. Diffuser Shell Positioning





GERGU (Phase I) – 414 MW Power Plant (3 X GAS TURBINE). Contd.

- 5. Exhaust Stack Assembly.
- 6. Raw Water Tank - fabrication





GEREGU (Phase I) – 414 MW Power Plant (3 X GAS TURBINE). Contd.

2005 -2008

7. Air Intakes System Erection



SDEM Equipment, Plant & Machineries and Logistics Vehicles

Lifting Equipment

- Mobile cranes 10 Nos : (25 to 220 ton capacity)
- Workshop overhead cranes
- Generators of 6.6KVA – 275 KVA
- Personnel lifting basket (26m reach)
- Forklifts
- Mobile scaffold Tower (12m platform)
- Payloader
- Backhoe excavator
- Diesel compressors

Machineries & Plants

- Welding machines : Argon TIG, Arc, Diesel, Electric
- Atlas Copco Compressors
- Lathe machine
- Milling machine
- Threading machine
- Oxy and plasma cutting table
- Shearing machine
- Plate rolling machine
- Hydraulic press
- Blasting and painting unit
- Large stock of scaffold tubes, clips etc

Project Supports

- Site tractors with trailers
- Self loader trucks
- Trucks head with flat bed trailers (20t-30t)
- Trucks head with 60t low bed
- Light motor vehicles

Equipment for erection



THANKYOU

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