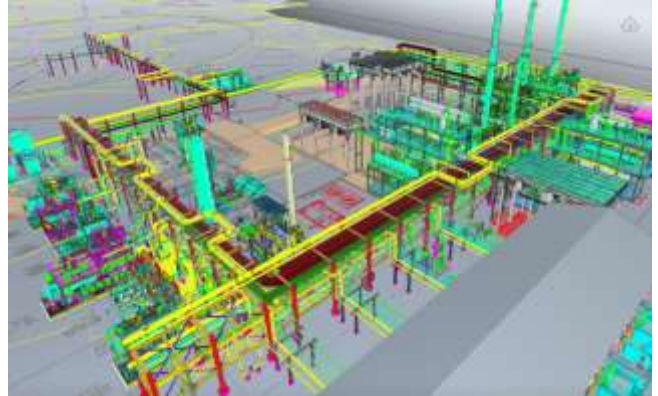


# Staaq Engineering Limited



Company Profile



[www.staaq-group.com](http://www.staaq-group.com)

## ABOUT US

**Staaq Engineering Limited** is an international Company, registered as a private limited company in Nigeria, playing in multiple sectors of the Nigerian economy, either directly or through affiliated partners.

Driven by a team of highly skilled professionals with motivated entrepreneurial spirit and leadership skills, the company has successfully launched herself as a company to watch in the industry and has evolved into a strong regional player.

At Staaq Engineering Limited, we maintain a strong presence in most Industries through deep-seated relationship with consultants, consumers and our customers.

We are passionate about what we do - the products and goods we supply, the services we provide, our corporate image, and our people. We are driven by high expectations, as required by our numerous clients and customers.

Throughout our rapid growth, our core values have remained constant — honesty in decision-making, personal responsibility and accountability, responsiveness and passion for expertise. These principles are at the heart of our ability to create and respond to market opportunities and have fueled our dramatic expansion.

Customer satisfaction and consistently high quality are essential to our philosophy and we approach all of our projects in the same proven manner. Accordingly, each project is implemented based on industry standard conventions as well as a commitment to meet all client's requirements uncompromised.

We are clear about where we are going and driving the pace to get there. This means we expect performance and bottom-line results, while providing the leadership and environment to create it.

## OUR VISION

To deliver the highest quality of products and services to our customers by ensuring safe delivery, on schedule, on budget and to specification while pursuing continuous improvement

## OUR MISSION

To enhance our customer's business through innovative engineering solutions by deploying our innovative products and services safely in the most environmentally friendly way, fulfilling our role in the international effort to reduce wastage and increase savings.

We seek to participate in the entire value chain consolidating on past experience and Investing in synergy through vertical integration and multi-disciplinary growth.

## OUR BUSINESS SEGMENTS

Staaq Engineering Limited is a multi-disciplinary indigenous company serving the Upstream, Midstream and Downstream business segments of the hydrocarbon and petrol chemical industries.

### Upstream

- Fixed Offshore Facilities
- Wellhead Caissons
- Production Barges
- Onshore Facilities
- Dehydration
- Compressor
- LACT Units

### Midstream

- Transmission Pipelines
- Compressor/Pump Stations
- Meter/Regulator Stations
- Gas Processing and Treating Facility
- Early Production Facility

### Gas Storage Facility

- Production Storage Terminals
- Barge Loading
- Gathering Pipelines

### Downstream

- Mini Petroleum Refinery

## OUR SERVICES

Staaq Engineering offers an extensive range of engineering disciplines and utilizes a project-based organization structure, allocating resources to project teams. Our team of project managers, construction managers, engineers, designers, and systems integrators specialize in all phases of project execution.

Staaq Engineering is a multifaceted organization strategically positioned to function as a turnkey construction main contractor, turnkey construction sub-contractor for specialized scope or an operations & maintenance service contractor.

Thus, we have grouped our services into the following three major categories:

- Turnkey Plant Construction
- Electrical, Instrumentation, Automation & Controls
- Plant Operation Support, Maintenance & Upgrade Services

## PLANT CONSTRUCTION

Staaq Engineering plant construction offering covers full spectrum solutions across the entire oil & gas streams, from production down to retail. We have adequate resources to deliver FEED, detailed engineering, procurement, construction, installation/erection and commissioning of diverse onshore and offshore process facilities.

Most of our personnel have gathered experiences working for companies providing ancillary & auxiliary solutions to major EPC companies in Nigeria and beyond, this boosts the compounded experience of Staaq Engineering. Our directors first gained experience in process Instrumentation & control, process flow, fabrication, erection and commissioning which forms a significant factor in the quality of Staaq Engineering project management.

## ENGINEERING

Staaq Engineering retains in-house engineers with a total combine experience of over 250 years, and some of our engineers and directors have worked on several prestigious projects within the oil & gas industries in

Africa, America and Middle East. We have licensed software applications (AspenOne, Aveva Engineering, Bentley SACS, Autocad & Autocad 3D), hardware equipment (computers, printers, scanners, etc.) and maintain a robust library of engineering design guides, oil & gas construction standards & codes (API, ASME, ISA, etc.) and many other resources both in hard paper and electronics formats.

## CONCEPTUAL ENGINEERING

- FEED Studies
- Cost Estimating
- Feasibility Assessments
- Facility and Plant Upgrade Reviews

## FEASIBILITY/GENERAL

- Statement of plant production target and ` progressive implementation plan
- Document order and precedence
- Master document index
- Engineering unit statement
- Land use plan
- Infrastructure strategy document
- Description of project
- Basis of design
- Preliminary equipment scope
- Temporary facility requirements, requisitions & specifications
- Shop space requirements
- Basic engineering design data
- Preliminary site plan
- Project codes and standard

## PROCESS DESIGN

- Process safety documentation
- HAZOP report
- Process 7 operational control description
- Process equipment list
- Datasheet for main equipment
- Tie-in schedule
- Effluent and emission summary
- Mechanical handling plan
- Noise data
- Performance guarantee statements
- Performance test procedure
- Pre-commissioning and commissioning manual
- Operating manual

We have extensive experience preparing lump sum bid packages, as well as reference packages to facilitate completion of work in an expedited timeframe.

A list of our standard project engineering deliverables excluding those for Electrical, Instrumentation, Automation and control engineering are presented below.

#### PLANT DESIGN

- Hazardous area classification drawing
- Plant block flow diagram
- Process flow diagram
- P&ID process
- Equipment specification
- Pipeline sizing
- Piping support & stress analysis
- Site plan (equipment & utilities layout)

- Design pressure/Temperature limits
- Startup & 2-years operational spares list
- Feed material flow control block diagram
- Material handling block diagram
- Area classification documents

## PIPELINE & LAYOUT

- Piping general arrangement
- Isometric drawing for N-50 and greater
- Isometric for pipework underground
- Detailed fabrication drawing for N50 and larger
- Piping material specification
- Standard piping details
- Pipework support calculations
- Pipework fabrication and installation specifications
- Pressure test procedure
- Special piping requirements
- Special piping support details
- Stress critical line list
- Stress analysis specification
- Hydrostatic test procedure
- Details of special requirements

## FIRE CONTROL & PREVENTION

- Firefighting system design philosophy
- Firefighting equipment layout list & requisitions

- Fire and gas detection & alarm equipment schedule
- Fixed extinguisher systems design
- Mobile Firefighting equipment schedule
- Safety equipment schedule

## CIVIL & STRUCTURAL DESIGN

- Civil layout site plan drawings
- Civil design criteria
- Road layout and details
- Foundation & concrete structure details
- Underground services specification
- Underground services layout
- Earthworks, excavation procedures, filling & compaction requirements
- Earthwork grading drawings
- Piling specification
- Piling layout, support capacities, locations, cut-offs & elevations
- Reinforced concrete specification
- Structural design criteria
- Structural steelwork design & specification
- Structural steelwork requisitions
- Fireproofing schedule
- Indexed design calculations

## ARCHITECTURAL DESIGN

- Building specification
- Building layout drawing
- Building detail drawing

- Schedule of finishes
- Schedule of doors and window

## COST ESTIMATE

- Estimate report
- Proposal template for procurement
- Proposal template for installation
- Reference drawing list
- Cost estimate and project cash flow forecast

We strive so hard to deliver comprehensive and high-quality engineering deliverables either as part of an integrated EPIC contract or an isolated engineering and design contract. We take full responsibility for our designs upon client's approval. We believe that successful engineering design is the primary guarantor for a successful construction campaign; hence we give our engineering phase the highest level of attention and subject our design deliverables through multistage internal review sessions.

## PROCUREMENT

We offer procurement services either as part of an EPIC contract or as an isolated service for other main plant construction contractors or plant operators. We have developed significant capacities in the area of procurement, some members of our team are certified for buying and expediting activities. Since procurement is a major cost component on any project, it is imperative for us to manage procurements processes efficiently to optimize project cost and schedule.

Staaq Engineering procurement solutions provide clients with global resources, processes, systems, market knowledge and volume-leveraged pricing to maximize return on investment. We maintain and continually update our supplier/manufacturer list with comments and ranking.

We have tested and trusted channels for sourcing major and secondary equipment and materials. We have stringent process flow for procurement and we also have established logistics channels and one of our major advantages remain our strategic relationship with several OEMs and local OEM representatives.

As part of our procurement processes we have developed and maintain the following databases for each project:

- Long lead items list
- Approved vendor list
- Material requisitions
- Request for quotation (RFQ) template

Our procurement objectives are optimized through the below:

- Strategic Sourcing
- Material Management
- Contract Management
- Logistics
- Export Compliance
- Global Market Knowledge
- Contracts Management
- Expediting Equipment & Vendor Data
- Global market watch
- Import-export and regulatory compliance
- Inventory and warehouse management
- Materials management
- Property management
- Purchasing
- Supplier diversity
- Supplier quality and shop inspections
- Traffic and logistics





## CONSTRUCTION & INSTALLATION

Our construction capability, which comprises of fabrication, erection, equipment installation and tie-in, is an area of critical capacity to our long-term development strategy, clients and all other stakeholder. We possess the requisite knowledge and experience for both in-shop fabrication and on-site fabrication of equipment, spools, structural members, skids, equipment installation and tie-in works. Our construction managers, engineers, technicians, equipment operators, welders and fitters are duly certified for industry grade and international standard construction and installation work.

Our construction experience include: installation of piping, execution of tie-ins, installation of pig launchers and pig receivers, process skids including compressors, VRUs, fuel gas systems, piping manifolds, in E&I installation of control rooms, FARs, Generators, control systems, metering skids, analyzer houses, E-houses, switchgears, fire and gas detection systems and equipment, in civil, construction of foundations, plinths, supports, shelters, housing, channels, tunnels and construction of site offices, accommodation quarters and warehouses, all processes of formworks, reinforcement, casting, blockworks, MEP and finishes are carried out by our dedicated experienced team.

Staaq Engineering operates a fabrication facility in Sapele, Delta State. We have a long list of self-owned construction equipment and tools while we maintain a log of equipment leasers' inventories that keep us abreast of availability for equipment hires.

We focus on the following for efficient delivery, especially in cases where Staaq Engineering is not the project engineering contractor. Thus, we successfully achieve optimization of construction activities, offering cost saving solutions throughout all project execution phases:

- Construction Management (According to Approved In-house Plan)
- HSE (Safety Performance & Excellence)
- Quality Control
- Constructability (Modelling & Analyses)
- Sustainability in Construction
- Craft Certification
- Industrial relations
- Modularization

- Rigging Monitoring
- Welding Excellence

Our lists of equipment and facilities information are available upon request from verified prospective clients (end-users only)

## COMMISSIONING

At Staaq Engineering we believe a seamless capital project commissioning is simply a confirmation of properly managed construction interfaces. To this end, Staaq Engineering understands the criticality of setting up a capable and coherent team for project commissioning, we therefore develop detailed project specific commissioning manuals ahead commissioning exercises. These manuals integrate OEM approach with client requirement and operational standards.

In support of start-up planning, each project component is divided into systems and sub-systems to facilitate their completion, pre-commissioning and commissioning. This approach requires close coordination between the clients, engineering disciplines, process licensors (where applicable), suppliers, construction and the start-up team, by Staaq Engineering, for seamless commissioning, start-up while minimizing the impact to ongoing operations (In the case of brownfield projects), and successful hand-over.

Our commissioning checklist ensures:

- Client endorsement of procedure
- Inspection of Construction & Installation Done
- Mechanical Completion Done
- Availability of construction/installation team on site
- Availability of major/crucial equipment manufacturer representative
- Availability of client representative
- Availability of calibration and test tools
- Availability of a director-level Staaq Engineering personnel at site
- Availability of Firefighting and emergency management team
- Reviewed & jointly approved JHA & JSA and adequate PPE

- Availability of regulatory organizations where necessary
- Availability of commissioning record sheet

## PROJECT MANAGEMENT

- Project Coordination/interface Management
- Schedule Development
- Procurement and Expediting
- PMS Development and Monitoring
- Safety Management and Support (HSE)
- Evaluating the client's objectives
- Performing feasibility studies
- Facility planning
- Preparation of total installed cost (TIC) estimates
- Cost Control
- Document Control Management

## OPERATIONS & MAINTENANCE SUPPORT

- Process Review
- Hazard Assessments
- Commissioning
- Operation and Start-Up Manuals
- Turnaround Management and Support
- Incident Investigation Management
- Compliance & Process Safety information
- Documentation validation and updating

## EPC MANAGEMENT

- Process Development
- Site Design & Construction
- Building Construction
- Foundations & Structural
- Equipment Fabrication & Installation
- Process Piping
- Electrical & Controls
- Start-up & Commissioning
- Training
- Maintenance
- Plant Operations

#### CONSTRUCTION MANAGEMENT & INSPECTION

- Pre-construction planning
- Contract preparation, negotiation and award
- Administration of construction contracts
- Field engineering
- Construction QA/QC services
- Industrial relations, safety and security
- Material control and procurement assistance
- Administrative support
- Project accounting
- Scheduling
- Pre-commissioning, commissioning and start-up assistance

#### TRAINING & MANPOWER SUPPORT & SUPPLY

Staaq Engineering offers trainings on a myriad of oil and gas related products (process automation systems, liquid hydrocarbon measurement and control, equipment operation and maintenance etc.). We also supply both indigenous and expatriate manpower for engineering, construction, pre-commissioning/commissioning and operation and maintenance activities.

Staaq is committed to sourcing and supply competent, experienced highly skilled and dedicated personnel, tailored to meet specific needs of our clients.

Our established network affiliations with reputable recruitment agencies across the globe afford us the flexibility of both local and international recruitment cutting across various continents. Our database of qualified and experienced engineering manpower covers all major disciplines in Design, Engineering, Procurement, Construction, Installation and Commissioning.

Our commitment to meet all clients' specifications and to match them with value driven service provision has enabled us to develop in-house recruitment methodology that has worked efficiently over the years. Our team of experts undertakes the activities below to handle client and project requirements:

- Training in areas of standards of business conduct, safety management and security awareness issues.
- Sourcing of qualified resumes and personnel
- Medical and security background screening
- Coordination of visas and work permits
- Administration of personnel relocation
- Cultural preparedness for families of new hires
- Meet & greet services
- Provision of security and in-country transportation for expatriate personnel
- Provision of housing and domestic support staffs
- Administration of safety measures related to geographical assignment location
- Administration of Client drug and alcohol policies
- Administration of foreign country labour laws.
- Administration of tax, pension and other country specific personnel employment requirements.

## SCOPE OF FACILITY PROJECTS

### OFFSHORE FACILITIES

Staaq Engineering has an experienced team of professionals available to plan, design and manage the construction of complete offshore facilities.

### SCOPE OF PROJECTS

We offer complete field development experience and execute projects ranging in complexity from development and installations of greenfields and upgrade/modification of brownfields.

- Field Developments
- Platform upgrade/Modification
- Compressor & Pump packages
- Process Equipment
- Production barges
- Pipelines
- Oil & Gas processing

### SERVICES PROVIDED

Staaq Engineering provides a range of services to assist with the execution of oil and gas production projects. These services include:

- Conceptual engineering/feasibility studies FEED Studies
- Permitting/regulatory submittals Project Management

- Detailed engineering- Design/drafting Facility and hazard reviews Project Controls
- Procurement and expediting
- Automation/process controls
- Construction management and inspection
- Operations support

## DISCIPLINES

Staaq Engineering hires a diverse group of engineers and project management professionals. Their expertise cuts across the following disciplines:

- Civil and Structural
- Mechanical
- Electrical
- Instrumentation
- Process
- Automation and Controls
- Construction Management
- Project Management
- Procurement.

## SCOPE OF FACILITY PROJECTS

### ONSHORE & INLAND WATERS FACILITIES

Staaq Engineering has an experienced team of professionals available to plan, design and manage the construction of onshore and inland water facilities.

## SCOPE OF PROJECTS

Staaq Engineering can execute projects ranging from single well development to large central processing facilities. Our team of professionals has experience in the following areas:

- Upstream Oil & Gas production facilities
- Crude Oil/product storage batteries
- JT/refrigeration plants
- Production and storage barges
- Gathering Systems
- Pump and Compressor stations
- Flare Systems
- Pipelines
- Power Generation
- Evaluation of existing facilities
- Foundations, Piles and Footings

#### SERVICES PROVIDED

We provides a range of services to assist with the execution of oil and gas production projects. These services include:

- Conceptual engineering
- Feasibility studies
- FEED studies
- Project management and controls
- Detailed Engineering Design
- Procurement and Expediting
- Facility Technical Safety Reviews
- Route reconnaissance and evaluation
- Regulatory and permitting submittals
- Automation/process control
- Construction management and Inspection

- Operations Support

## DISCIPLINES

Staaq Engineering employs a diverse group of engineers and project professionals with background in the following:

- Civil and Structural
- Mechanical
- Electrical
- Instrumentation
- Process, Automation and Controls
- Pipeline
- Construction Management,
- Project Management,
- Procurement,
- Safety

## SCOPE OF FACILITY PROJECTS

### GAS PROCESSING FACILITIES

Staaq Engineering is active in the Gas Processing facility operations with successful completion of a number of Flare Out solutions for multiple clients. With expertise in engineering, procurement and construction, as well as experiences in operations and HSE support including Process Safety Management (PSM) compliance, Staaq Engineering offers solutions ranging from Low Pressure to High Pressure Gas recovery, processing, metering, compression, transport and storage.

## SCOPE OF PROJECTS

Staaq Engineering provides a team of experienced personnel in the Gas Processing industries to manage and execute project from small brownfield modifications to complete greenfield development projects. Our team of professionals has experience in the following areas:

- Gas Compression Facility
- Cryogenic Processing Facility
- Grass-Roots Development
- Packaged Process Systems
- Facility Modification and improvement
- Debottlenecking Studies
- Conception Engineering
- FEED Studies
- Process Safety Management (PSM)

#### SERVICES PROVIDED

We provide a range of services to assist with the development and execution of new projects, operations improvement and safety execution in the Gas Processing industries.

These services include:

- Engineering, Design and Procurement
- Project Management
- Construction Management
- Project Controls
- Process Hazard Analysis/HAZOP Facilitation
- Project Scheduling and Expediting
- Turnaround Management
- Pre-Commissioning/Commissioning/Startup Assistance
- Safety Systems and Process Safety
- Management (PSM)
- Process Automation, Control and SCADA

## DISCIPLINES

Staaq Engineering employs an experienced and diverse group of engineers and project professionals with backgrounds in:

- Civil and Structural,
- Mechanical,
- Electrical,
- Instrumentation,
- Process, Automation and Controls
- Construction Management,
- Project Management,
- Procurement,
- Safety

## SCOPE OF FACILITY PROJECTS

### PIPELINE FACILITIES

Staaq Engineering has an experienced team of professionals available to plan, design and manage the construction of complete pipeline facilities.

### SCOPE OF PROJECTS

Staaq Engineering provides comprehensive services to successfully complete regulated and non-regulated pipeline facility projects in most geographic environments. Staaq Engineering can execute projects ranging in size from a single well development to major transmission pipeline projects and related measurement, pumping and compression facilities.

Our team of professionals have experiences in the following areas:

#### PIPELINE

- Gathering Systems & Well Connects
- Pipeline Transmission Systems
- Pipeline Distribution Systems
- Directional Drill Crossings
- Utility Relocations
- Leak Detection, SCADA, Controls & Automations

#### PIPELINE INTEGRITY ASSESSMENT & REHABILITATION

- Integrity Program Plan Development
- Risk Assessment
- Data Conversion & Data Integration
- Smart Pigging
- Hydrostatic Testing & Recertification
- Coating Rehabilitation

#### PIPELINE FACILITIES

- Compressor and Pump Stations
- Meter and Regulator Stations
- Mainline Valve Stations
- Launcher/Receiver Facilities
- Slug Catcher and Storage Facilities
- Condensate Stabilization and vapor Recovery

## SERVICES PROVIDED

We provide a range of services to assist with the execution of pipeline projects. These services include:

- Conceptual engineering
- Feasibility studies
- FEED studies
- Project management and Controls Detailed engineering-design/drafting Procurement and Expediting Survey and Mapping
- Route reconnaissance and evaluation
- Regulatory and permitting submittals
- Automation/process control
- Construction management and Inspection
- Operations Support
- Right of Way Acquisition

## DISCIPLINES

Staaq Engineering employs a diverse group of engineers and project professionals with backgrounds in:

- Civil and Structural,
- Mechanical,
- Electrical,
- Instrumentation,
- Process, Automation and Controls
- Construction Management,
- Project Management,
- Procurement,
- Safety

## TURN KEY PROJECT, PROJECT MANAGEMENT, CONSTRUCTION MANAGEMENT & PROCUREMENT

Staaq Engineering has an experienced team of construction managers, inspectors and project control/purchasing agents to provide on-site client representation as well as the commitment to executing the project in a safe and cost-effective manner.

## SCOPE OF PROJECTS

We can execute and manage a full range of EPC turn-key projects and construction management, field procurement, material control, cost control and scheduling. In addition to construction oversight, sub-contract administration and quality control.

Our team of professionals has experience in the following areas:

- Gas Compression Facility
- Cryogenic Processing Facility
- Early Production Facility
- Surface Production Facility
- Packaged Process Systems
- Facility Modification and improvement
- Gathering Systems & Well Connects
- Pipeline Transmission Systems
- Pipeline Distribution Systems

## DISCIPLINES

Staaq Engineering has a diverse group of engineers and project professionals, their experiences cuts across the following disciplines:

- Certified Welding Inspection
- Piping & Pressure Vessels
- Mechanical
- Civil/Structural
- Process
- Process control
- Electrical & Instrumentation

## SERVICES PROVIDED

Staaq Engineering provides a range of services to assist with the execution of construction management, inspection, procurement and cost control. These services include:

### INSPECTION MANAGEMENT

Onsite Fabrication Inspection and Onshore Construction Supervision

### PROJECT CONTROL

- Procurement
- Expediting
- Cost Control
- Project Documentation

### PROJECT MANAGEMENT

- Project Cost Estimating
- Schedule Development
- Project Planning and Execution

- Vendor Surveillance

## TRACK RECORD & EXPERIENCE

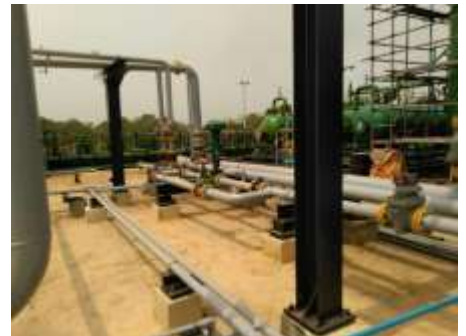




Staaq E







Staaq Eng





## STAAQ FABRICATION FACILITY



### COMPLETED & ONGOING PROJECTS

| SN | PROJECT                                                    | CLIENT                                       | CONTACT                                               | STATUS    |
|----|------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|-----------|
| 1  | Utorogu NAG 2 Project                                      | Shell Production Development Company         | Chris Ubuane<br>Chris.O.Ubuane@shell.com              | Completed |
| 2  | Alakiri NAG Project                                        | Shell Production Development Company         | Ranti Ahmed<br>ranti.ahmed@shell.com                  | Completed |
| 3  | Ughelli East, Ughelli West, Utorogu Associated Gas Project | Shell Production Development Company         | US Ukpong<br>ukpong.s.ukpong@shell.com                | Completed |
| 4  | Amukpe Flare Out Project                                   | Seplat Energy                                | Chijioke Anyanwu<br>chijioke.anyanwu@seplatenergy.com | Completed |
| 5  | Sapele Flare Out Project                                   | Seplat Energy                                | Chijioke Anyanwu<br>chijioke.anyanwu@seplatenergy.com | Completed |
| 6  | Oben Flow Station Flare Out Project                        | Seplat Energy                                | Chijioke Anyanwu<br>chijioke.anyanwu@seplatenergy.com | Completed |
| 7  | Oben Gas Plant Flare Out Project                           | Seplat Energy                                | Kingsley Aghomishe<br>kaghomishe@seplatenergy.com     | Completed |
| 8  | Umusati/Igbuku Gas Development FEED Project                | Pillar Oil and Gas                           | Tunde Olayinka<br>tunde.olayinka@pillaroil.com        | Completed |
| 9  | OML30 Ewreni Gas Lift Compressor CU2 Project               | Heritage Energy Operational Services Limited | Shaun Tett<br>shaun.tett@HEOSL.com                    | Ongoing   |

### LOCATIONS

#### PROJECT MANAGEMENT OFFICE

11a Babatunde Anjous  
Lekki Peninsula Phase 1  
Lagos  
Nigeria  
Phone Number: 08024650709  
Email Address: [projects@staaq-group.com](mailto:projects@staaq-group.com)  
Website: [www.staaq-group.com](http://www.staaq-group.com)

#### FABRICATION FACILITY

Aziza Industry Layout  
Okirighwre  
Sapele  
Delta State  
Nigeria  
Phone Number: 08024650709  
Email Address: [projects@staaq-group.com](mailto:projects@staaq-group.com)  
Website: [www.staaq-group.com](http://www.staaq-group.com)

