

***Realizing
Ideas...***



AKTECH

AKTECH Technical Services

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ABOUT US

Specialized Engineering and Plant Construction Company

AKTECH is an EPC services provider founded by a Group of Engineers with a very diverse backgrounds, experiences and projects history. From its registered offices in Dubai and Khartoum, **AKTECH provides Engineering, Procurement, Construction & Commissioning services in the Middle East, East Africa and West Africa.**

All Required Services Out of One Hand

Construction and infrastructure, Process Engineering, Automation and Control Engineering, Piping etc...








We offer single-point-of-responsibility solutions and services for the engineering, construction, operation, and maintenance of industrial plants and facilities in conjunction with the oil & gas, mining, and infrastructure fields.

Added Value

Undertaking all engineering-design services in-house, ensures adaptability and quick and precise responses to inevitable project adjustments; furthermore, gives us the edge to offer top of line service at a competitive rate. We never cut corners and always aim to maintain the highest standards in safety, quality, ethics, and environmental responsibility.



QHSE POLICY

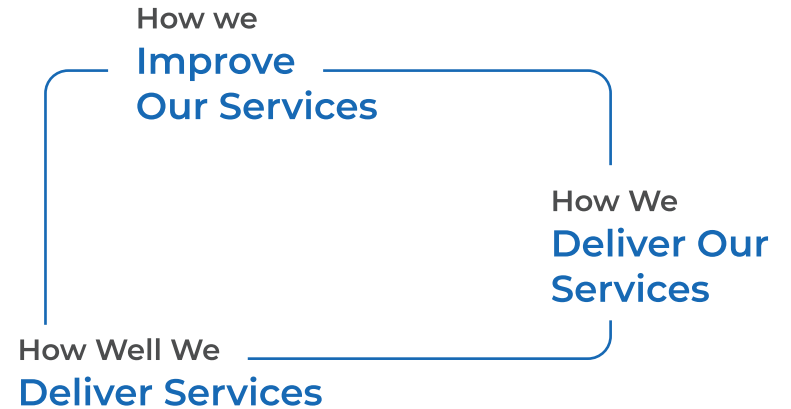
-  We will work diligently to create and maintain working conditions that ensure safety. To this end, we will observe all applicable regulatory requirements as well as client safety requirements. In the event that there is any conflict between these, AKTECH subcontractor safety requirements and AKTECH's safety requirements, the more stringent will apply.
-  All levels of management will reflect their commitment to safety and environment by ensuring adherence to all applicable rules and requirements as an integral part of the everyday work routine.
-  AKTECH is committed to comply with local statutory requirements, relevant safety legislation, regulation, prevention of pollution and continual improvement.
-  Management must be vocal, visible, and vigilant in meeting this commitment from top management down to front-line managers. These responsibilities may not be delegated.
-  Every AKTECH employee and subcontractor to AKTECH is responsible and accountable for his or her own as well as his or her co-worker(s) safety and for the environment, which the work may affect. Individual safety responsibility and accountability are a condition of employment at AKTECH.
-  Every AKTECH employee will have access to this QHSE Policy. In addition, they and all AKTECH subcontractors will also receive training on the AKTECH Corporate QHSE Plan. Further training will take place, as applicable, to provide site-specific QHSE training.
-  This Policy and the Corporate QHSE Plan are complemented by many standards, procedures and related documents which will be provided for all AKTECH employees on AKTECH's website and in hard copy, as required.



AUTHORIZED BY:
Khalid Haider
CHAIRMAN

AKTECH QMS

AKTECH adopts an integrated quality management system at all levels of business, operational and project activities in order to assure and control the quality of service provided, maintain operational consistency, and ensure efficiency improvement. The main strategical objective that is driving the direction of AKTECH’s quality management system is to achieve and improve the satisfaction of our prestigious clients.



Standard: ISO 9001:2015



Certification Number: RCLQ100145
 Issue Date: 07-OCT-2022
 Initial Assessment Date: 07-OCT-2022
 Assessment Due Date: 06-OCT-2025

As a general contractor for infrastructure projects and turnkey industrial plants, we offer all required services out of one hand
“Single-point-of-responsibility”

5 Steps to a Complete Project

Investment Planning

- Technical & commercial concept.
- Feasibility study.

Engineering Design

- Process Development
- (Extended) Basic Engineering.
- Authority Engineering.
- Detail Engineering.

Procurement

- Tendering / Awarding.
- Supply of equipment.

Construction

- Construction / Installation.
- Supervision.
- Documentation.

Commissioning & Operations

- Training.
- Commissioning.
- After-Sales Services / Maintenance.
- Revamping.

WHAT WE DO



From Feasibility Studies To Commercial Operations



Project Development

- Including feasibility study, technology, and plant concept.
- Definition of technology, optimum plant design criteria and environmental impact assessment.
- Engineering, procurement, and project management.
- Construction and start-up, starting from site geological.
- Surveys – whenever required – and civil works up to complete installation and commissioning.
- Plant operation staff training, and management support.



*Focus On
Time, Cost,
and Quality*



Engineering, Procurement & Project Management

- Project management and project engineering based on state-of-the-art software/tools.
- Engineering high performance achieved through discipline integration and proven planning and control procedures.
- Equipment procurement and delivery of updated and innovative technology from world class suppliers.
- To express our commitment to achieving and maintaining a leading position in Sudan's engineering-services domain, we have implemented a comprehensive Quality Management System to allow for continued growth, improvement, and technological advancement.
- HSE - Strong commitment - Zero tolerance.





*Customized Site
Organization
Optimizing Local
Resources*

Project Construction, Commissioning and Start-up

- Full turnkey schemes, starting from site geological surveys and civil works, up to complete electro/mechanical installation, commissioning, and start-up.
- Assistance to the Customer in subcontracting the site civil and erection works, and supervision of the site works and commissioning.
- Equipment procurement and delivery of updated and innovative technology from world class suppliers.
- To express our commitment to achieving and maintaining a leading position in Sudan's engineering-services domain, we have implemented a comprehensive Quality Management System to allow for continued growth, improvement, and technological advancement.
- HSE - Strong commitment - Zero tolerance.



OUR SERVICES DETAILS

- **Conceptual Process Design & Feasibility Studies.**
- **Front End Engineering Design.**
- **Mechanical Detailed Design.**
- **Piping & Pipeline Detailed Design.**
- **Instrumentation & Control Detailed Design.**
- **Electrical Detailed Design.**
- **Design & Drafting Services.**
- **Procurement Services.**
- **Construction Services.**
- **Project Management Consultancy (PMC).**

Conceptual Process Design & Feasibility Studies

We offer pre-investment fully integrated engineering services (Conceptual design + Financial Analysis = Feasibility studies) to customers in several fields including Oil & Gas, Mining, Energy, Industrial/Manufacturing & Infrastructures. Our engineers are capable and equipped with the required know-how and tools (software packages; HYSYS, PIPESIM, PIPENET, PIPELINE-STUDIO, etc.) to support our client's projects from conceptual level to detailed engineering, fabrication/construction, commissioning, and operations.

Activities

- Conceptual Design.
- Feasibility Study.
- Process Design.
- Basic Engineering.
- PFD & P&ID Development.
- Heat and Material Balance "HMB".
- Conceptual Layouts.
- HAZID.HAZOP, LOPA Studies/Analysis.
- Operation and Control Philosophy.

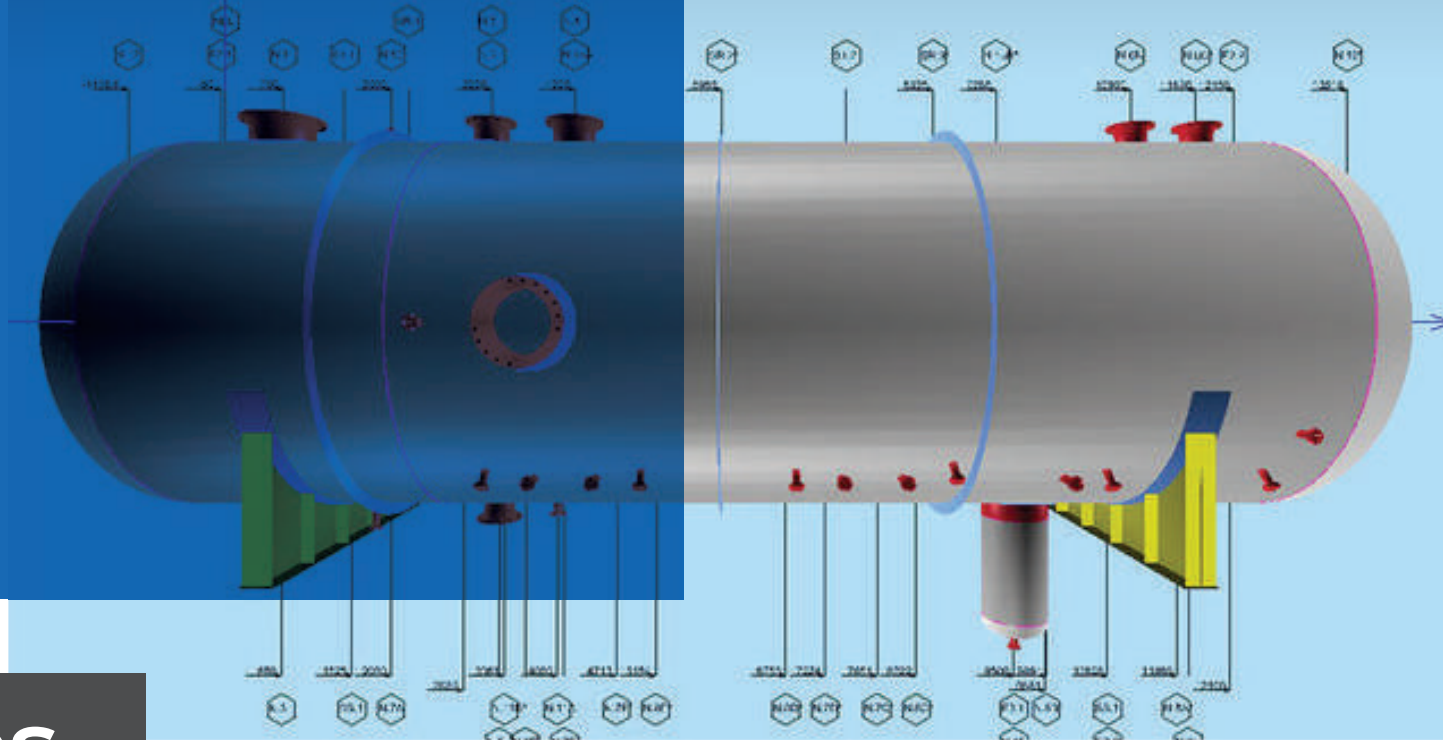
Front End Engineering Design

Our Engineers have a proven track record of delivering comprehensive and competitive engineering solutions to (the Oil & Gas facilities, Mining Industry, Industrial/Manufacturing sectors, among others). The company has broad spectrum of experience ranging from conceptual and Front-End Engineering “FEED” to basic and detailed engineering reinforced by cutting edge technology/equipment, and the sophisticated software tools.

Activities

- Definition, selection and sizing of main equipment.
- Producing main equipment data sheets and specifications.
- Development of process piping and instrumentation diagrams “P&IDs”.
- Development of utilities piping and instrumentation diagrams “P&IDs”.
- Development of detailed plot plans.
- Elaboration of the main piping, instrumentation, electrical and civil works layouts.

Mechanical Detailed Design



Activities

- Authorization for Expenditure (AFE) & Total Installed Cost (TIC) Estimating.
- Preparation of equipment and piping layouts, general arrangements.
- Rotating Equipment Design /selection.
- Vessels & Tanks Design/Specifications (AME TANK. PV ELITE, etc.).

Piping & Pipeline Detailed Design

Activities

- Authorization for Expenditure (AFE) & Total Installed Cost (TIC) Estimating.
- Preparation of equipment and piping layouts, general arrangements.
- Piping/Pipelines Design Calculations Specifications / Drawings/ Isometrics /MTOs.
- Piping Flexibility / Stress Analysis (Caesar II/AUTOPIPE) Including process & utilities piping, & firefighting ring design.
- Hydraulic Analysis.
- Relief System Analysis.

Instrumentation & Control Detailed Design

Instrumentation and control system are the backbone of any plant/facility as once the operations starts the facility becomes heavily reliant on the instrumentation and control system/equipment, thus AKTECH has partnered with reputable experienced systems-integrators to ensure the proper integration of complex technology, equipment and engineering requirement into the project/facility control room, we deliver all types of control system from manual up to a fully automated/unmanned plants that runs 24/7 with multilayers contingency backup systems in place.

Instrumentation & Control Detailed Design

Activities

- Operation and control philosophies, Block diagrams, wiring schematics & Hook-up drawings, instrumentations specifications, cable schedule, instruments locations layout.
- PLC programming, SCADA integration.
- Interface development.

Electrical Detailed Design

AKTECH Electrical team is capable of undertaking a wide variety of installation, testing, and commissioning projects for a broad spectrum of clients.

Activities

- Lighting and Grounding System Design.
- Electrical Distribution System Design “ETAP”.
- Load Studies and Arc Flash Studies.
- Coordination and Short Circuit.
- Motor Control and Switchgear Design.
- Medium and Low Voltage Distribution.
- Motor Starting Analysis.
- Variable Speed Drive Systems.
- Generator Sets.
- Code Interpretation.
- Uninterruptible Power Supply (UPS).
- Grounding Design.

Modelling & Drafting Services

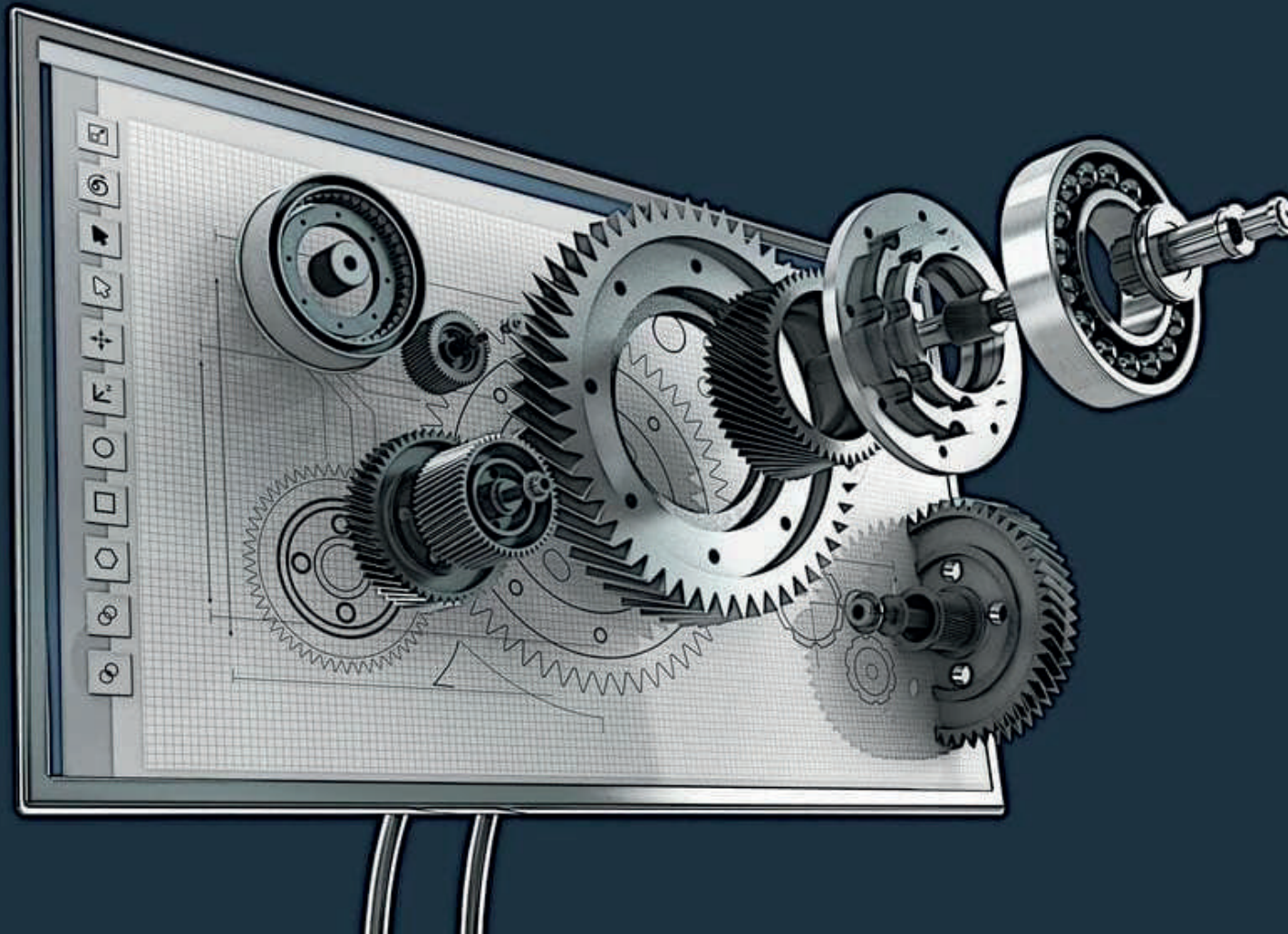
Activities

Multi-Disciplined Design and Drafting:

- Civil.
- Structural.
- Mechanical / Piping.
- Electrical & Instrumentation.
- Utilizing the Industry's Latest Drafting Software, On-site field trips to collect data for facility design and/or retrofit of equipment, experienced personnel.
- 3D Model Presentations.
- 3D Models Are Also Utilized for Checking for Model Integrity and Design Progress.
- Ensures Stewardship of Client's Documents.

Design Software

AKTECH utilizes extensive computer programs for Techno-economic Studies, Engineering, Procurement Services, and Projects Management. AKTECH is also equipped with the most advanced software for 3D Modelling & Drafting applications adding to Equipment Design and Sizing packages. These Software programs include the following items:



Design Software



HYSYS
Process Simulation and Sizing for Chemical, Petrochemical and Oil & Gas.



OLGA 2000
Steady-State and Transient Pipeline Thermal and Hydraulic Analysis.



PIPESIM
Steady State multi-phase flow simulation.



ATMOS SIMULATION SUITE
Process Simulation and Sizing for Chemical, Petrochemical and Oil & Gas.



PV ELITE (Mechanical Dep.)
Pressure Vessel and Heat Exchanger Design and 3D Modelling.



AME TANK (Mechanical Dep.)
Atmospheric vessels/ aboveground storage tank design, shop-built, & re-rating applications. Design calculations conform to API 650.



CAESAR II (Piping Dep.)
Pipe Flexibility and Stress Analysis.



AUTOCAD PLANT 3D (Piping Dep.)
3D modelling and Design software for Process Plant, Piping system, Structures, HVAC and Electrical systems.



AUTOPIPE (Piping Dep.)
Analysis and design application used to calculate piping stresses, loads, and deflections under static and dynamic load conditions.



PDMS AND E3D
3D modelling and Design software for Process Plant, Piping system, Structures, HVAC and Electrical systems.



CADWORX
3D modelling and Design software for Piping & Process Plant.



FCVS (Control & Instrument Dep.)
Control Valve Sizing.





ETAP (Electrical Dep.)
Electrical System Analysis.



PVsyst (Electrical Dep.)
Solar power modelling.



ETABS (Structural Dep.)
3D Static and Dynamic Analysis
of Multi-Storey Frames.



PROKON (Structural Dep.)
analysis and design of
beams, frames, and trusses.



STAAD Pro (Structural Dep.)
Structural analysis and design
for steel, timber, and concrete
structures.



**Microsoft 365 (Planning
& Project Management Dep.)**
All-in-one powerful central collaboration
hub, that automates workflows and
offers several benefits.



**PRIMAVERA ENTERPRISE
(Planning & Project Management Dep.)**
Project Planning and Control Software.

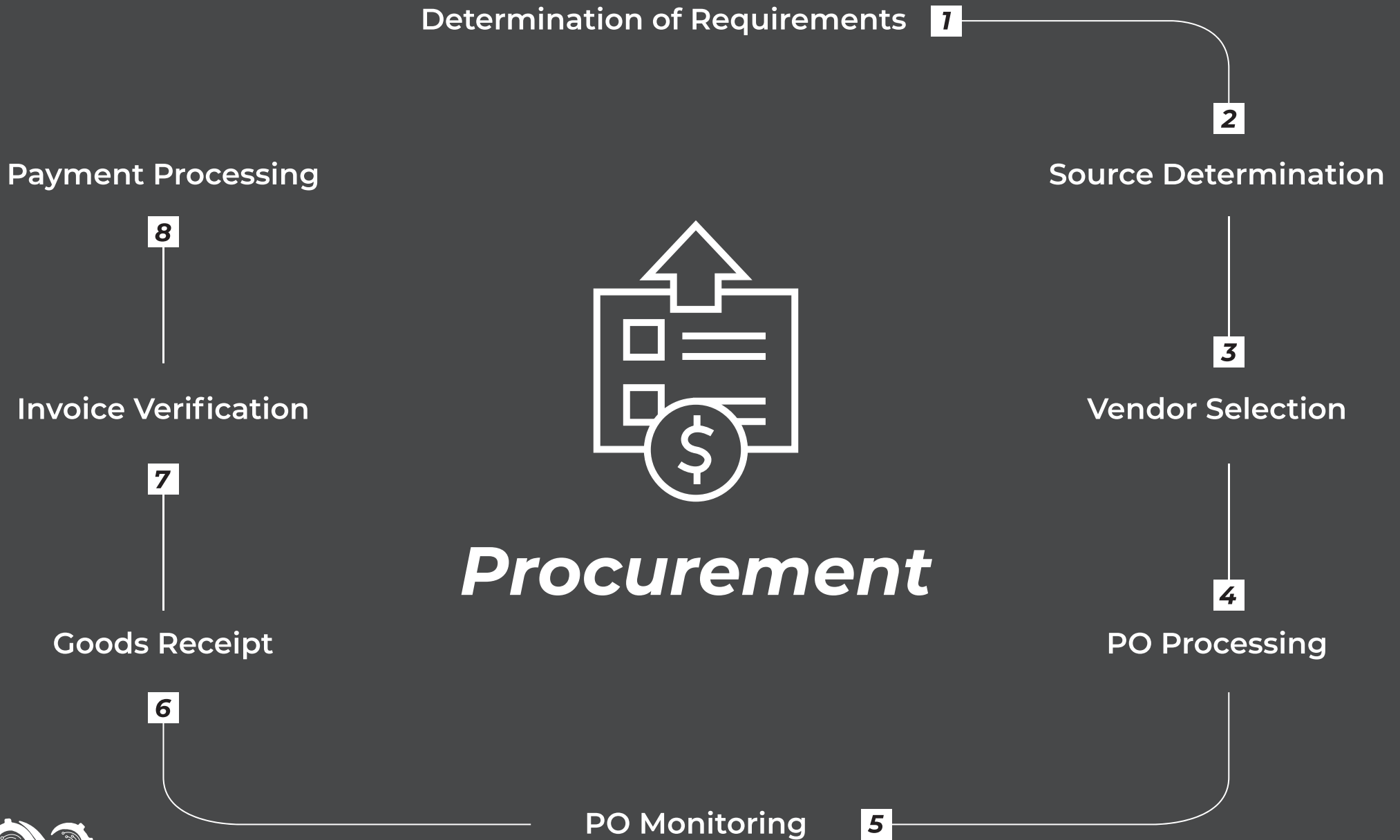


Procurement Services

AKTECH has a potential team of specialized Suppliers and subcontractors who work around the globe to maximize project profitability and value for clients' investments. We select/draft the most competitive vendors, equitable contracts, and reliable delivery systems to provide the highest quality product at an economical price, and on time. Each LSTK based project has its own experienced team who are experts in handling complex facilities/ plants.

Activities

- Cost Estimation.
- Purchase.
- Vendor Development & Qualification.
- Supplier Capability Assessment.
- Quality inspection & Expediting.



Construction Services

Expert capabilities in comprehensive construction/execution of facilities/plants in challenging environments and difficult terrains provides AKTECH with an additional edge. Construction management, qualified engineers, a team of professionals, interactive 3D modeling tools, proven track record of timely delivery, knowledge/awareness of international standards of quality and efficient coordination of incident-free man-hours makes AKTECH equipped to manage projects of any scale. We have an extensive experience with international PMCs and in providing support for acquiring local licenses and permits.

Activities

- Construction Project Management.
- Co-ordination with Sub-contractors.
- Civil Works.
- Piping & Pipeline Works.
- Mechanical, Instrument & Electrical Work.
- Quality and Safety Enforcement & Inspection.
- Oversight & Analysis Purchase.

Project Management Consultancy (PMC)

AKTECH, upheld by abundant geographical and technical experience, has the ability to execute a wide range of complex EPC projects on LSTK basis in an array of regions around the country. AKTECH represents a single point of accountability for the client, integrating the activities of all contractors often from different backgrounds. The company's inhouse engineering-design, close monitoring of project activities and use of sophisticated software tools like MS Project/Primavera, helps to ensure projects' completion within the targeted time, cost & quality.

Activities

- Technical and Commercial Documentation.
- Site Survey and Project Schedule.
- Client Requirement Meetings.
- Coordination with Technical Partners.
- Engineering & Design Approval.
- Construction & Procurement.
- Inspection & Expediting.
- Training & Commissioning.

Project Management Consulting Benefits



- Increase Accountability.
- Cost Tracking.
- Increase Team Performance.
- Increase Collaboration.
- On Time Project Delivery.
- Increase Communication.

Mechanical Inspection

Activities

- Developing WPS, WQT, PQR for New Construction and In-service Pipeline by Certified Welding Engineer. IWE and CSWIP 3.1
- Advanced NDT Service: AE, PAUT, TOFD and Long Guided Waves.
- Tanks and Vessels Inspections as per API 653 by API Certified Inspector.
- Piping System Inspection as per API 507 by API Certified Inspector.

Electrical Testing & Commissioning Services

Testing, pre-commissioning and commissioning services for electrical equipment / substations including:



Activities

- Power/Distribution Transformer.
- MV Switchgear.
- LV Switchgear.
- Protective Relays and Systems.
- Instrument Transformer (CT, VT).
- Cable Systems.
- Electrical Rotating Equipment .
- DC System.
- Earthing and Lightning Protective System.

AKTECH Electrical Owned Assets

AKTECH Technical Services relies on the following owned assets to achieve Electrical Testing and Commissioning Services:

- Hi-pot tester (high voltage (AC/DC) withstand test set).
- Transformer oil dielectric strength test set.
- Transformer turn ratio test set.
- Transformer winding resistance test set.
- Contact resistance test set (micro-ohmmeter).
- Circuit breaker mechanical characteristics analyzer.
- Protection relay test set (secondary injection tester).
- Primary current injection test set.
- Current/voltage transformer analyzer.
- Insulation resistance test set (2500V/ 1000V / 500V megger).

Our Clients | Partners



Our Projects

| No. | Client | Scope of Work | Location | Date |
|-----|--|---|--------------|---------------|
| 01 | Power China / Sinohydro, NEOM | Provision of engineering services for NEOM temporary water supply for construction. | Saudi Arabia | February 2022 |
| 02 | Greater Pioneer Operating Company Limited (GPOC) | Provision of General Engineering Services (GES) | South Sudan | February 2023 |
| 03 | Petro-Energy E&P Operating Company | Provision of General Engineering Services (GES) for Forthcoming Facilities | Sudan | January 2023 |
| 04 | Greater Pioneer Operating Company Limited (GPOC), T&M Technical and Management Co Ltd | EPCC for 66/33kV Munga Substation Reinstatement | South Sudan | December 2023 |
| 05 | Redrock Mining Co. "MANUB", Managem International for Mining Co. Ltd | Project management, engineering, pre-commissioning and commissioning services for MANAGEM water pipeline. | Sudan | February 2020 |
| 06 | EXICO Petroleum Services Co. Ltd, GPOC/ 2BOPCO | EPCC for UNITY FPF rehabilitation phase 2. | South Sudan | February 2020 |

| No. | Client | Scope of Work | Location | Date |
|-----|--|--|-------------|----------------|
| 07 | ASAWER Oil & Gas, 2B OPCO for Crude Oil Ltd | Engineering design services for replacement of Obsolete Heglig CPF SWGR & MCCs / HPP MCCs. | Sudan | August 2022 |
| 08 | RAM Energy, Petro-Energy E&P Operating Company (CNPC-Sudan) | Provision of engineering services for HADIDA and SUFYAN power upgrading project. | Sudan | November 2020 |
| 09 | ASAWER Oil & Gas, 2B OPCO For Crude Oil Ltd | Provision of engineering services for upgrade of PETCO pipeline pressure and temperature monitoring system. | Sudan | September 2021 |
| 10 | EXICO Petroleum Services Co. Ltd, GPOC/ 2BOPCO | Provision of engineering services of heater treater burners replacement at BAMBOO FPF. | Sudan | March 2021 |
| 11 | Star Contracting Oil & Gas Limited, DPOC | Provision of engineering services for outgoing feeder reconfiguration at substation of PALOUGE power plant-2. | South Sudan | September 2018 |
| 12 | Petrolines for Crude Oil Ltd | Provision of safety relief valves servicing, calibration and certification at all pump station, metering station and MT. | Sudan | October 2022 |

NEOM Temporary Water Supply Project - Coastal Section

Client: Power China / Sinohydor, NEOM

NEOM's Coastal Temporary Water Supply Project, covers the provision of Engineering, Procurement, Construction and Commissioning Services for the Water Transmission system enabling delivery of 44000 m³/day Bulk Desalinated Water through interconnection with Sharma-HPR pipeline near Sharma Station to the Western Core Development area for construction. Project facilities include:

- Around 71.5 Km of HDPE pipeline network of different sizes (22.1 KM of OD400, 25.9 KM of OD630 and 23.5 KM of OD900 HDPE pipe)
- Two (2) Demand centers each with 5000m³ storage capacity (5000 m³ storage Tank)
- Three (3) Tanker filling stations
- One (1) pumping station

AKTECH Scope of Work:

- Detailed Design & Engineering
- Procurement Support
- Construction Support



NEOM Temporary Water Supply Project - Mountain Section

Client: Power China / Sinohydor, NEOM

NEOM's Mountain Temporary Water Supply Project, covers the provision of Engineering, Procurement, Construction and Commissioning Services for the Water Transmission system enabling delivery of 28,700 m³/day Bulk Desalinated Water from HPR reservoir to the Eastern Core Development area for construction. Project facilities include:

- Around 81.2 Km of HDPE pipeline network of different sizes (2.6 KM of OD400 and 78.6 KM of OD630 HDPE pipe)
- Two (2) Demand centers each with 5000m³
- Four (4) Tanker filling stations
- Five (5) pumping stations

AKTECH Scope of Work:

- Detailed Design & Engineering
- Procurement Support
- Construction Support



EPCC for 66/33kV Munga Substation Reinstatement

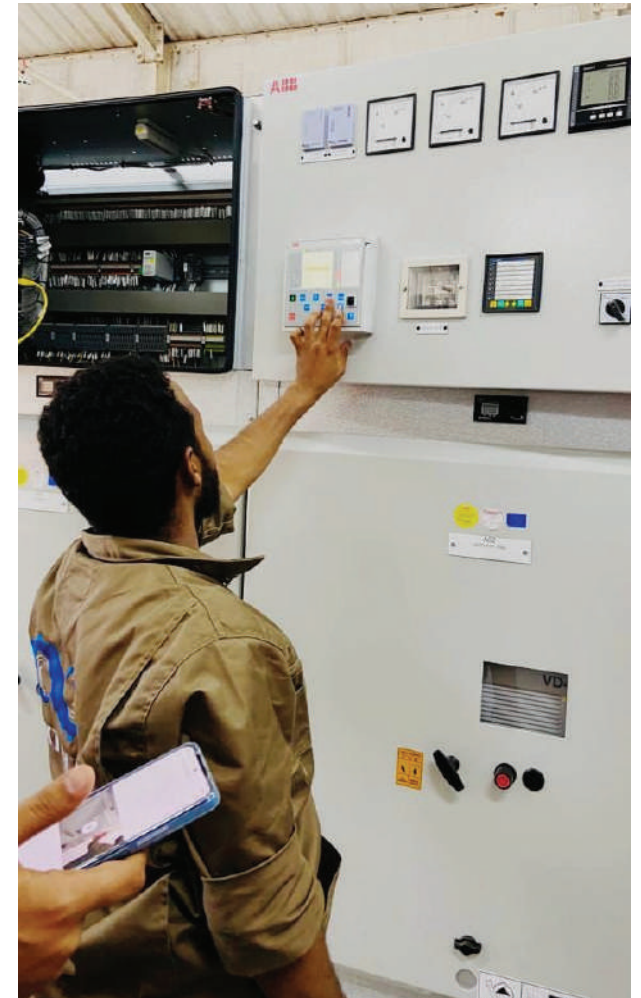
Owner: Greater Pioneer Operating Company, South Sudan
Main Contractor: T&M Technical and Management Co Ltd

Provision of Engineering, Procurement, Construction & Commissioning (EPCC) Services Munga 66/33 kV Substation Reinstatement project including:

- Replacement of 66kV outdoor AIS Switchgear equipment (i.e. SF6circuit breakers, Isolators, Current Transformers, Potential Transformers, Lightning Arresters, etc.)
- Replacement of 66/33kV 16MVA Transformers
- Replacement of Relay and Protection Panels
- Replacement of 33kV Switchgear
- Replacement of DC UPS system
- Earthing, Lighting, Cabling and other related miscellaneous works

AKTECH Scope:

- Provision of Project Management Services
- Provision of Detailed Design & Engineering Services
- Provision of Construction Supervision Services
- Provision of Pre-commissioning and Commissioning Services



Provision of General Engineering Services (GES)

Client: Greater Pioneer Operating Company Limited (GPOC)

Work Order Title: Provision of Electrical Engineering Deliverables for Unity FPF

Date: 1 March 2023

Scope: Verify existing Electrical engineering documents via site verification and Mark-ups and produce As-built packages for GPOC.

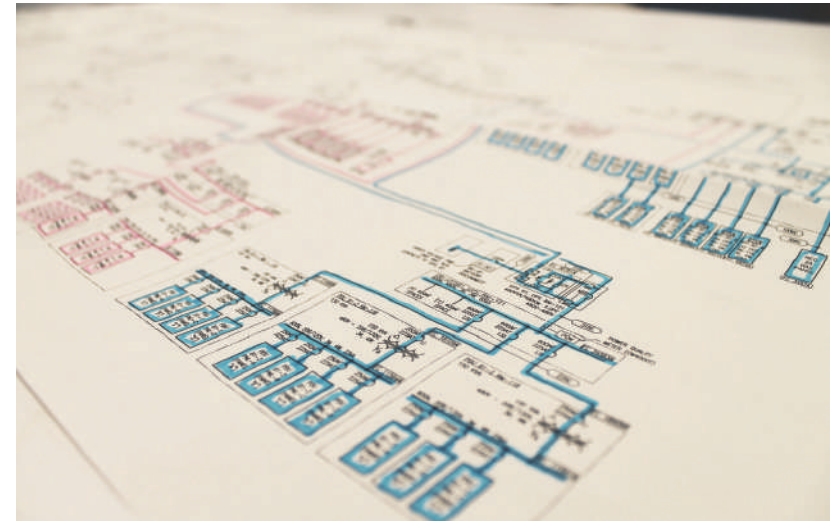
Deliverables includes (Single line diagrams, layouts, Schematic drawings, Specifications, datasheets, calculation reports, cable schedule and installation details drawings)



Provision of General Engineering Services (GES)

Client: Greater Pioneer Operating Company Limited (GPOC)
Work Order Title: Update Overall Master Single Line Drawing Main Power Supply to Oilfield for 33kV System & 66kV System.
Date: 3 April 2023

Scope: Perform Site Survey and Verification to Provide MARK-UP and consequently generate Master Single Line Diagrams (Native, PDF & Hardcopy) for the GPOC Oilfield Main Power supply 33kV System & 66kV System

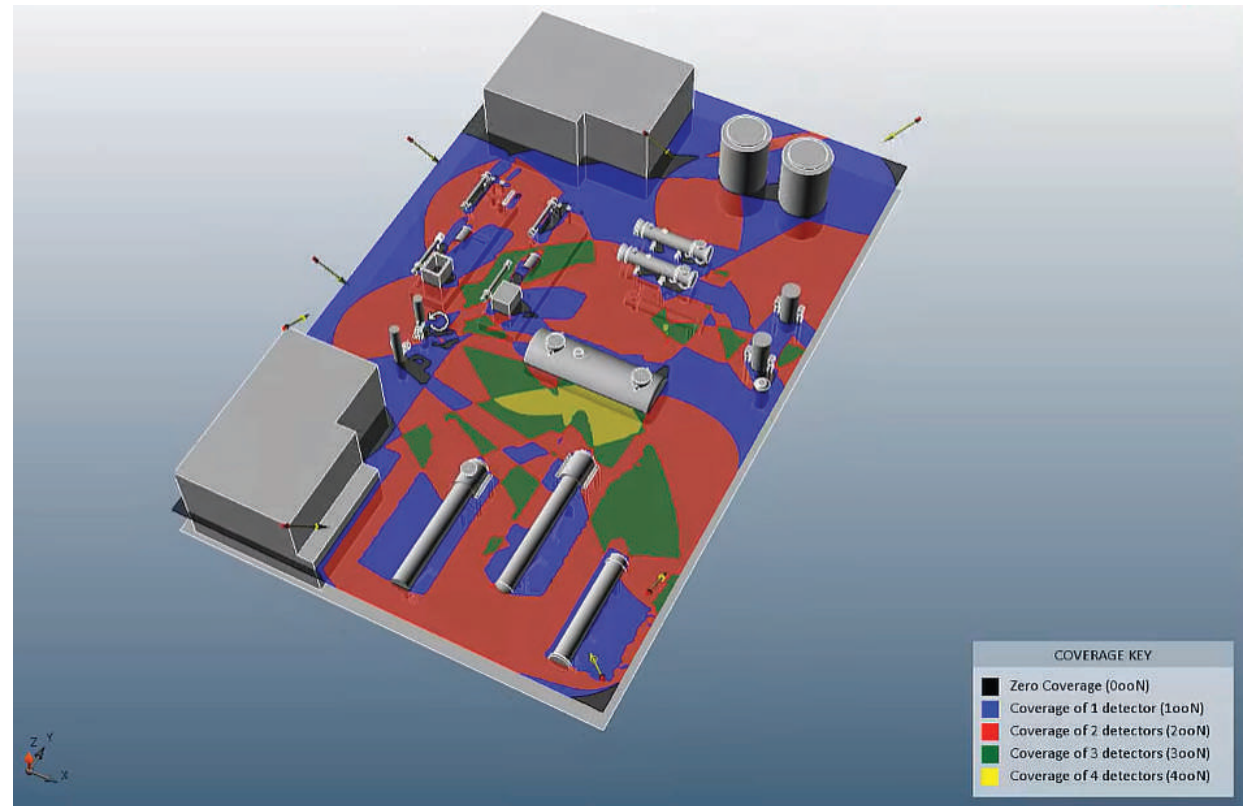


Provision of General Engineering Services (GES)

Client: Greater Pioneer Operating Company Limited (GPOC)
Work Order Title: Fire & Gas Mapping for GPOC Facilities
Date: 31 May 2023

Scope : Perform Fire and Gas Mapping (FGM) for all 5 GPOC Fields Processing Facilities (FPF), Unity Power Plan and North Field Sub-station which includes the following:

- Perform F&G system integrity check.
- F&G System Philosophy, terms of reference and study report.
- Develop F&G model and Grade map for each facility.
- F&G Detectors assessment, datasheets and detector location layout



Provision of General Engineering Services (GES)

Client: Greater Pioneer Operating Company Limited (GPOC)

Work Order Title: Feasibility Electrical Study for Providing Power Supply to Paring Administrative Area, Unity State Bentiu Area & Heglig Power Plant Area.

Date: 15 November 2023

Scope: Perform a comprehensive feasibility study for multiple options for Power supply to Parieng, Bentiu and Heglig areas including:

- A comprehensive Power system study (load flow analysis, voltage drop, short circuit study), Single line diagrams, layout drawings.
- BOQ's and Cost estimation for each option.
- Detailed feasibility study report for each option
- EPCC schedule for each option

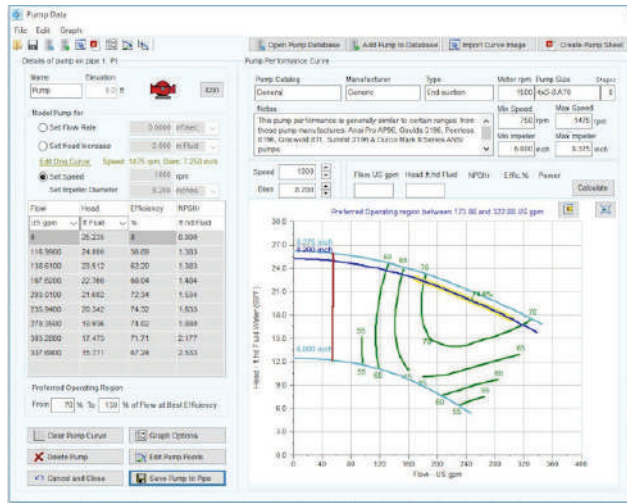


Provision of General Engineering Services (GES)

Client: Greater Pioneer Operating Company Limited (GPOC)
Work Order Title Fip - Engineering Study for Pump Along with Motor Replacement Scope for Optimizing Crude Oil Transfer Operations

Date: Feb 2024

Scope: Provision of Engineering Study for the replacement of several crude oil transfer pump-motor sets to ensure reliable and efficient crude oil transfer operations at 5 oil fields including Unity, Munga, Toma South, El Toor, and El Naar. project scope includes comprehensive engineering analysis, cost estimation, performance testing, and the integration of SCADA/PLC systems for monitoring and control purposes.



Managem Water Pipeline Project

Client: REDROCK MINING CO.- "Manub"
Managem International for Mining Co Ltd

Scope: Engineering Design Subcontractor + EPCC Project Management



Provision of Unity Rehabilitation Phase 2

Client: Exico Petroleum Services Co. Ltd, GPOC / 2B OPCO

Scope: Engineering Design Subcontractor + EPCC Project Management



Obsolete Heglig CPF SWGR & MCCs / HPP MCCs

Client: ASAWER Oil & Gas, 2B OPCO for Crude Oil Ltd

Scope: Engineering design services for replacement of Obsolete Heglig CPF SWGR & MCCs / HPP MCCs.



HADIDA and SUFYAN Power Upgrading

Client: RAM Energy, Petro-Energy E&P Operating Company (CNPC-Sudan)

Provision of engineering services for HADIDA and SUFYAN power upgrading project.



Upgrade of PETCO Pipeline

Client: ASAWER Oil & Gas, 2B OPCO For Crude Oil Ltd

Scope: Provision of engineering services for upgrade of PETCO pipeline pressure and temperature monitoring system.



Heater Treater Burners Replacement

Client: Exico Petroleum Services Co. Ltd, GPOC/ 2B OPCO

Provision of engineering services of heater treater burners replacement at BAMBOO FPF.



Palouge Power Plant- 2

Client: Star Contracting Oil & Gas Limited, DPOC

Scope: Provision of engineering services for outgoing feeder reconfiguration at substation of palouge power plant-2.



Safety Relief Valves Servicing

Client: Petrolines for Crude Oil Ltd

Provision of safety relief valves servicing, calibration and certification at all pump station, metering station and MT.



Our Location & Contacts

EGYPT-CAIRO

Location: One Kattameyya Business Complex, Ring Rd,
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UAE - DUBAI

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