



Cyclotron

Engineering Services Limited

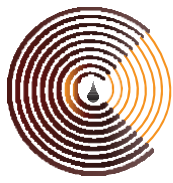
Turbomachinery | Asset Integrity | Maintenance



www.cyclotroneng.com

+234-802-834-4311

info@cyclotroneng.com



- About Us
- Mission and Vision
- Core Competencies
- Our Services
- Our Partners
- Our Projects
- Client List
- Our Offices



Cyclotron Engineering Services Limited is a fully Nigerian-owned oil and gas service company.

Our top management team brings on board a combined hands-on experience within the industry in excess of 45years. We provide a wide range of services to support companies like yours - Services, Procurement, Training and Certifications.

Specifically, we strive to become a preferred supplier of services to the oil and gas industry based on quality and reliability, and by providing cost-efficient.

We strive to be your company of choice for all.
Turbomachinery, Asset Integrity, Maintenance.

■ Mission:

- To be recognized as the best-in-class Turbomachinery, Asset Integrity, and Maintenance (TAM) reliability solutions in the Nigerian Oil & Gas Industry through the provision of Engineering, Procurement, Maintenance and Operations Services.
- To proactively uphold the Environment, Health, & Safety while enhancing local capacity-building in line with the Nigerian Local Content Development Policy.

■ Vision:

- The innovative use of technologies and human capacities to deliver client-focused value through the improvement of assets at all stages of its lifecycle.

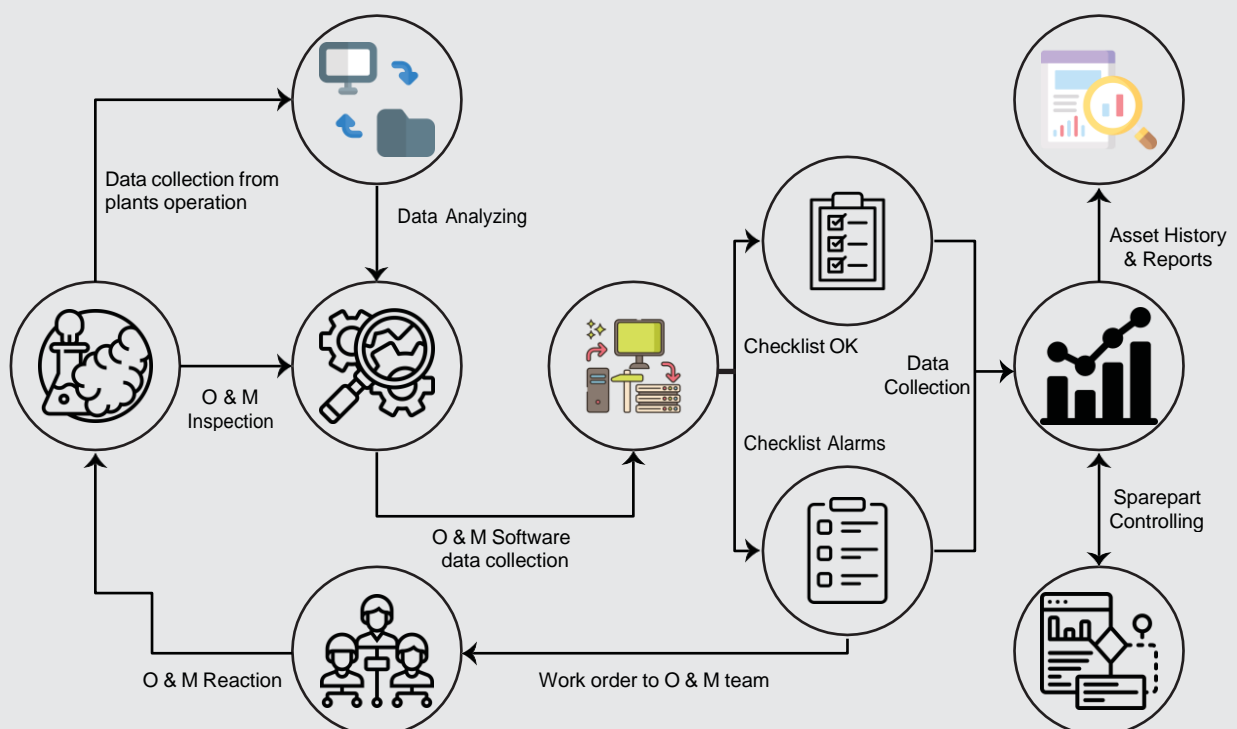


| Turbomachinery, Operations & Maintenance |
| Asset Integrity Management | Equipment Installation and Commissioning |
| Procurement and Delivery | Training and Certification |



OPERATIONS & MAINTENANCE (O & M)

Workflow of O & M



■ Rotating Machinery (Turbomachinery)

- Turbines, Compressors, Generators, Pumps
 - Solar turbines, GE, Siemens, Rolls Royce
 - Ariel, Dresser-Rand, Aerzen, Cooper
 - Caterpillar, Waukesha, Perkins
- Operations and Maintenance
- Turbine overhaul/exchange programs
- Engineering, design, procurement, installation and commissioning
- Troubleshooting, controls and instrumentation
- Borescope inspections - high quality images and videos

■ Condition Monitoring Services

- Motors, pumps, compressors
- Development of risk-based inspection program
- Thermography



■ Vessel and Tank Inspection, Repairs and Certification

- Process, storage, and pressure vessels.
- Corrosion monitoring, UTM, NDT, MPI etc.
- Surface protection, coating against corrosion.
- Meets industry standards and regulatory requirements.
- Inspection and audit coordination.



■ HV/AC and Electrical Systems

- Integrated solutions - central and stand-alone systems.
- Design, fabrication and installation of electrical distribution systems.
- Low to high voltages application.
- CE & ATEX equipment for intrinsically safe operations.



■ Rope Access Services

- Flow lines and Risers Inspection.
- Fabric Maintenance/Flare tower inspection.
- Structural integrity inspections.
- Conventional and advanced NDT services.
- Close visual and photographic inspections.
- Marine Services.



■ Valve Inspection and Servicing

- Repairs, replacement parts and engineered upgrades.
- Leaks inspection.
- Relief, control, safety, flow, temperature, etc. valves.
- We support spares, servicing, and installations.



■ Life Extension Services

- Development of a life extension work scope.
- Risk-based inspection.
- Engineering and Compliance Support.
- Project management, consultancy, and reporting.

■ **Field Machinery Services**

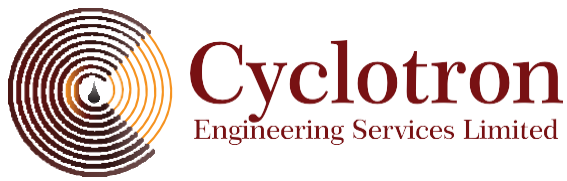
- Major preventive, predictive and corrective maintenance strategy development.
- Laser alignment and inspections.
- Complete plant operations and maintenance.
- Delivery and/or fabrication of spare parts.
- Upgrade of existing projects.

■ **Engineering Consultancy and Design**

- Engineering design, management consultancy.
- Process optimization and de-bottlenecking.
- Development of equipment O & M strategies.
- Computerized maintenance management systems (CMMS) setup and support.
- FATs and SATs on mechanical and electrical equipment.
- Greenfield projects from concepts.
- Equipment specification, selection, and design.
- Brownfield re-design, assessment, and review.
- Process system review and redesign to meet changing in condition of feed fluids.
- Root Cause Failure Analysis (RCFA) for plants and facilities.

■ **Training and Certification**

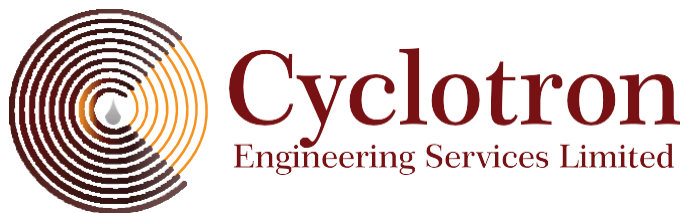
- Subject-Matter-Expert (SME) trainings.
- Classrooms and online trainings.
- Need-based assessment - carried out to ascertain and contrast the capacity, ability, and official functions of a target group.
- Delivery - utilizing an approach that is interactive, friendly and needs focused.
- Assessment - impact of the training on the participants is carried out to ascertain the value for money spent by the client.
- Multiple training locations - Lagos, PHC and Eket.



PARTNERS



▪ 2023	Procurement and delivery of CAT 3616 Cylinder head	Network Oil & Gas
▪ 2023	Inspection and certification of 2-unit gas generators package	FrazPower
▪ 2023	Akam Gas Generator Reinstatement and Hook-up	Addax Petroleum
▪ 2022	Provision of Required Spares & Materials for MCC & Generator Intervention	Addax Petroleum
▪ 2022	Main Oil Line Pump P-100 Overhaul and Repairs	Addax Petroleum
▪ 2022	CAT G3616B Compressor Spares and Consumables	Addax Petroleum
▪ 2021	Synchronization of 2X CAT gas generators	Addax Petroleum
▪ 2020 - Date	Operations and Maintenance of CAT driven Compressors and Generators	Addax Petroleum
▪ 2019/2020	Supply of 2X CAT XQ1475G (1.5MW each) gas generators, 2 years running and commissioning spares	Addax Petroleum
▪ 2021	Repair of Instrument Air Compressor and Dryer Units	Neconde
▪ 2020	Supply of Fuel Gas Filter	Addax Petroleum
▪ 2019/2020	Rewinding of Gas Generator Alternator Contracts	Addax Petroleum
▪ 2019/2020	Supply of general CAT, Waukesha and Ariel spares	Addax Petroleum
▪ 2019/2020	Condition Monitoring Services for Top-Tier Equipment (TTM)	ExxonMobil
▪ 2019	GE10 Turbine Commissioning Readiness Assessment Inspection	Neconde
▪ 2019	Procurement of Solar Turbine Spares	Neconde
▪ 2019	Compressor RCFA Inspection and Reporting	Heritage Oil (CAPSL)
▪ 2019	Engine change out of Solar Centaur 50 unit	Total E & P
▪ 2019	GE10 Borescope/CTA Inspection	NPDC



CLIENT LISTS





□ **Head Office:**

- **Admin/ Engineering:** 13, Gbenga Adeyinka 1st Street,
Off Freedom way, Lekki Phase 1,
Lagos State.

- **PHC (Workshop):** Plot 146, Trans-Amadi Industrial Layout,
Opposite Michelin,
Port Harcourt,
Rivers State.

- **Eket(Fab-Yard):** 42, Enen Ekpene Road,
Afaha Eket, Eket,
Akwa Ibom State.

ASSET INTEGRITY MANAGEMENT SOLUTION

Core Competencies

Rotating Machinery (Turbomachinery)

- Turbines, Generators, Pumps, Compressors.
- Procurement, Installation, Commissioning, Overhaul.
- Operations & Maintenance.

Condition Monitoring Services

- Vibration & Oil analysis, thermographic/thermal imaging, engine borescope inspections.

Crane and Davit Services

- Supply, installation, repair/replacement and certification of cranes, hoist, and gantry from a wide range of OEMs.

Vessel/Tank Inspection, Repairs and Certification

- Automated & Semi-automated cleaning, re-certification, corrosion control etc.

Rope Access & Non-destructive testing (NDT)

- Deliver full range of level I-III NDT services and rope access.

Valve Inspection and Servicing

- Procurement, testing and recertification.



CAT XQ1475G Gas Generator Project



Gas Compression Facility O & M Project



Solar Centaur 50 Gas Turbine Engine
Change-Out

Key Projects Executed

Total E & P Nigeria Limited - 2019

- Centaur 50 Gas turbine engine - Generator driver change-out.

Aiteo Exploration & Production - 2019

- Provision of condition monitoring services.

Nigerian Petroleum Development Corporation - 2019

- GE-10 Gas turbine hot-gas-path Borescope inspections (40MMSCFD Gas Compressors driver).
- Provision of Solar turbine inlet filters.

Heritage Oil Exploration & Production Limited - 2019

- Gas compressor RCFA and recommendation.



Cyclotron
Engineering Services Limited



Cyclotron Engineering Services Limited

Administrative and Technical Publication

13, Gbenga Adeyinka 1st Street,
Off Freedom way, Lekki Phase 1,
Lagos State,
Nigeria.

Phone: +234-802-834-4311

Website: www.cyclotroneng.com

Email: info@cyclotroneng.com



Confidential & Proprietary document of Cyclotron Engineering Services Limited

Unauthorized distribution is prohibited.