



# Forst Empire Limited Company Profile

Integrated Engineering & Project Solutions



**Orire**

Managing Director





**Executive Summary** Forst Empire Limited is a fully integrated engineering, procurement, construction, installation and commissioning (EPCIC) company headquartered in Lagos, Nigeria. Positioned at the intersection of innovation and reliability, Forst Empire delivers high-impact solutions across the oil & gas, energy infrastructure, and industrial automation sectors.



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# Company Overview

- 01 Forst Empire Limited is a private Nigerian company
- 02 Fully registered with the Corporate Affairs Commission (CAC)
- 03 Licensed to operate across multiple technical domains
- 04 Partnering with international OEMs, technical experts, and local partners
- 05 **Vision:** To be Africa's premier engineering and project services partner
- 06 **Mission:** To exceed client expectations through precision engineering
- 07 **Core Values:** Integrity, Innovation, Excellence, Sustainability, Safety
- 08 Departments include Engineering & Projects, Calibration & Metering Services, Business Development, HSE & Compliance, Finance & Admin, QA/QC & Inspection



# Our Capabilities & Services

Engineering, Procurement, Construction, Installation & Commissioning (EPCIC)

01

**End-to-end EPCI solutions customized for oil & gas and infrastructure projects ensuring seamless execution.**

02

**Engineering services including feasibility studies and concept selection to optimize project outcomes.**

03

**Engineering: Delivering detailed Front-End Engineering Design (FEED) to guide project development phases.**

04

**Advanced 3D modeling, structural analysis, and process simulation for precise engineering designs.**

05

**Procurement involving vendor prequalification and strategic sourcing to ensure quality materials.**

06

**Construction services including onshore fabrication and module erection for robust infrastructure.**

07

**Installation & Commissioning: Expert hook-up and tie-ins to assemble systems efficiently.**

08

**Installation & Commissioning: Conducting performance validation and ensuring smooth final handover.**





# Manpower Sourcing



Our manpower division ensures clients are staffed with qualified professionals at every phase of a project.



We source, vet, and deploy:



Technical Personnel: Engineers, QA/QC specialists, riggers, instrument techs



Operations Staff: HSE officers, site coordinators, welders, pipeline technicians



Administrative Support: Project controls, document controllers, logistics officers



Our Value Proposition



National Content Development (NCDMB aligned)



HSE onboarding and certification



Rotational support and welfare logistics



Skills development and training partnerships



# Electrical & Instrumentation (E&I)

- 01 E&I team delivers the backbone of industrial operations
- 02 Power System Design: LV/MV/HV system design, load flow studies, short-circuit analysis
- 03 Cable Routing & Installation: Glanding, termination, and cable tray installations
- 04 Substation Works: Switchgear, busbar installations, protection coordination
- 05 Earthing & Lightning Protection: Compliance with IEC, IEEE, and Nigerian codes
- 06 Field Instrumentation: Flow, Pressure, Temperature, and Level instruments
- 07 Loop Design & Hook-Up: Loop diagrams, JB wiring, Tubing installations
- 08 Calibration & Testing: HART communicator-based configuration, certified calibration
- 09 Control Panels: Design and integration of RTU, PLC, and local control panels



# Automation & Control Systems

- **Automation solutions** drive efficiency, minimize downtime, and ensure regulatory compliance.
- **SCADA Systems:** Design and integration with RTUs, flow computers, and telemetry
- **DCS & PLC Programming:** Siemens, Schneider, Allen-Bradley, Emerson DeltaV
- **HMI & Visualization:** Graphic interfaces for process visibility and alarm management
- **Industrial IoT & Cybersecurity:** Secure data acquisition, historian databases, and network security layers
- **Custom control logic design**
- **System validation (FAT/SAT)** with client and third-party witnesses
- **Remote monitoring dashboards**



# Gas Infrastructure

**Pipeline Design & Construction:** Routing, stress analysis, and installation of gas pipelines (2" to 48")

**Pressure Regulation & Conditioning:** Filtration, Heaters, PRVs, Control valves

**Facility Types:** Gas receiving stations, City gate and Pressure letdown stations, Metering and regulating skids for industries and power plants

**Metering Skids & Stations:** Design of fiscal and custody transfer metering systems

**SCADA & Safety:** Integration of remote operations, Emergency Shutdown (ESD), and Fire/Gas detection

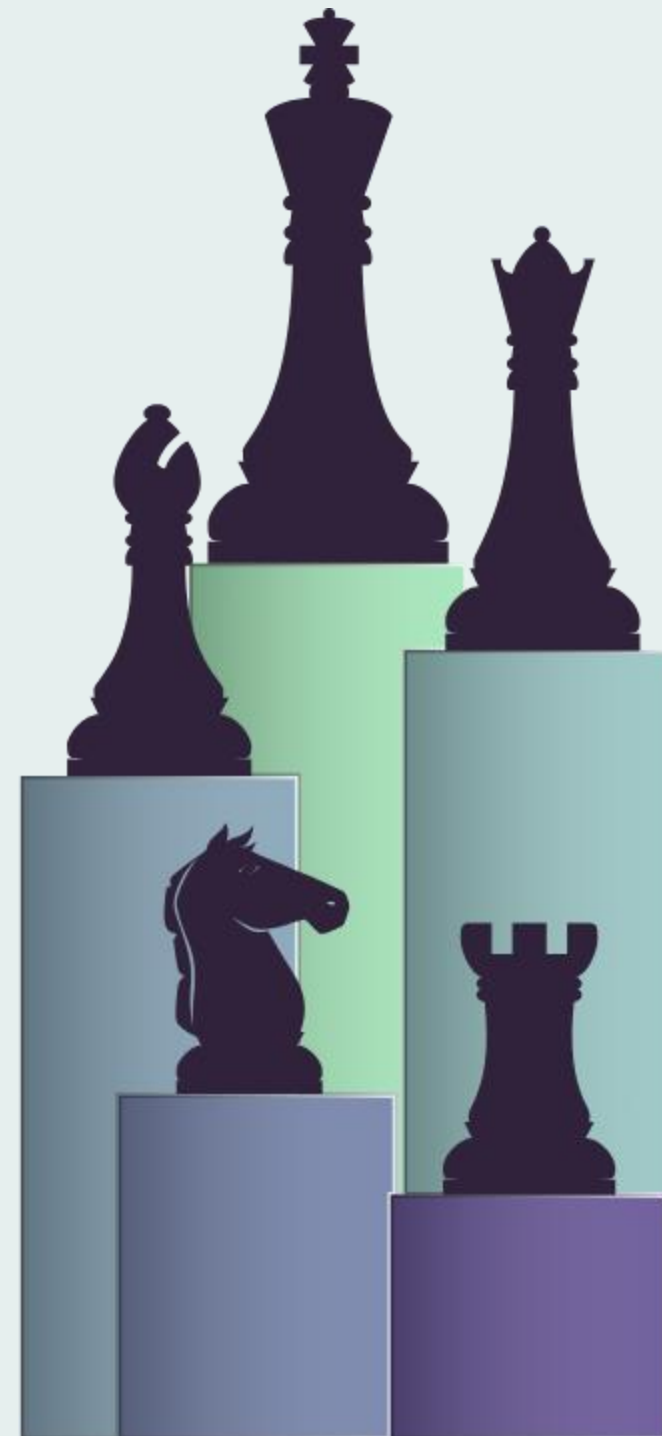


# Power Solutions

**Gas-to-Power Integration:** Turbine and engine-based generation for embedded power systems

**Distribution & Substations:** 11kV–132kV substations, switchgear installations, and protection systems

**Markets Served:** Oil & gas processing sites, Industrial clusters, Rural electrification zones



**Solar PV & Hybrids:** Ground-mounted solar systems with battery/backup integration

**Energy Audits & Upgrades:** Load analysis, retrofitting, and harmonics mitigation

# Marginal Field Development & EPF



- 01 We help marginal field operators monetize reserves by deploying cost-efficient, scalable early production systems.
- 02 Reservoir Evaluation & Field Planning
- 03 Well Services Coordination – from site prep to completion
- 04 Infrastructure Optimization: Cost-sharing tie-ins, modular skids, existing right-of-way usage
- 05 Design & Fabrication: Separators, heater treaters, surge tanks, pump skids
- 06 Commissioning: Utilities, instrument air, ESDs, control panels
- 07 Flow Assurance: Wax/hydrate prevention, chemical dosing systems

# EPC of Pipelines



Pipeline systems form the arteries of the energy sector.



Forst Empire delivers turnkey EPC solutions for pipelines across various terrains.



Survey & Route Mapping:  
Topographical, geotechnical,  
and environmental studies



Pipeline Construction:  
Welding, NDT, coating, and  
trenching



Hydrotesting &  
Commissioning: Dewatering,  
pigging, pressure testing



Compliance: Alignment with  
ASME B31.3/B31.4, NUPRC  
guidelines



# Measurement & Calibration Services

- 01 **Gravimetric Calibration Laboratory:** Nigeria's first facility for traceable calibration of mass and volume flow meters using **gravimetric principles (In-view)**
  - 01 **Reference Standard:** ISO 4185-compliant weighing tanks.
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- 03 Primary Device: Calibrated load cells, flow meters, timers.
- 04 Meter Types: Coriolis, Ultrasonic, Turbine, Positive Displacement.
- 05 Capacity: Up to 42" meters with  $\pm 0.05\%$  uncertainty.
- 06 Strategic Value: Reduces turnaround time for meter certification.
- 07 Mobile Master Meter Calibration Rig: Self-contained, trailer-mounted system that calibrates flow meters onsite.
- 08 Components: Flow generator, ISO-certified master meter, digital recorder & software interface.
- 09 Benefits: On-demand compliance support, saves cost of decommissioning meters.



# Industry Standards & Certifications

- 01 Forst Empire operates to the highest quality, safety, and environmental benchmarks.
- 02 Committed to aligning with national regulatory frameworks and international best practices.
- 03 ISO 9001: Quality Management Systems
- 04 ISO 45001: Occupational Health & Safety
- 05 ISO 14001 (in progress): Environmental Management Systems
- 06 NUPRC Compliance: Custody transfer metering & calibration
- 07 NCDMB Certification: Nigerian Content Development and Monitoring
- 08 OIML R117 & ISO 4185: Flow measurement and calibration standards
- 09 API and ASME codes: Engineering design, welding, and pressure containment
- 10 QA/QC division ensures strict inspection regimens, documentation controls, and traceability from engineering through handover.



# Strategic Partnerships

- 01 Our strategy hinges on collaboration with global technology leaders and service excellence on landmark projects.
- 02 **Local Technical Partner:** Resam Complete Engineering
- 03 **Intl. Technical Alliances:** OEMs: Endress+Hauser, Siemens, ABB, Emerson, Yokogawa (PLC/SCADA, E&I, metering skids)
- 04 **Calibration Expertise:** Benchmarking against Euroloop (Netherlands), Flow Master, NIST
- 05 **Engineering Collaborators:** Independent consultants like Lion Engineering, Bibeau Compressors and MetalFab UAE for structural/mechanical expertise
- 06 **Early Production Facility for Marginal Field :** Eunisell Ltd
- 07 **EPC Project for Gas Infrastructures:** CPPE, Dogu Celik(Turkey) etc.



# Strategic Partnerships





# Our Customers

Understanding our diverse client base





# Project References

Showcasing Key Projects Demonstrating Our Expertise and Capabilities



## ASABA Independent Power Plant

A major power generation project highlighting our expertise in independent power plants.



## Greenfuels Gas Processing Plants

Development and management of facilities for efficient processing of natural gas.



## 800KW MWM Gas Engines

Commissioned at Akachi Industries in Aba, this project illustrates our expertise in deploying compact power systems effectively.



## 8.5 MW MWM Gas Engines

This project involved the installation of 8.5 MW gas engines for the Delta State Government, showcasing our capabilities in large-scale power solutions.



## Civil Engineering Projects

Various civil engineering initiatives showcasing our multi-sector infrastructure capabilities.





# Project References Contd.

Showcasing Our Notable Projects



## 14 MW Cummins Engines

Commissioned in 2012 for Coronation Power in Lagos, showcasing our capabilities in large power solutions.



## 10.6 MW Jenbacher Engine

Installed in 2013 for Sterling and Wilson, demonstrating our reliability in energy generation projects.



## 4 MW MWM Gas Generators

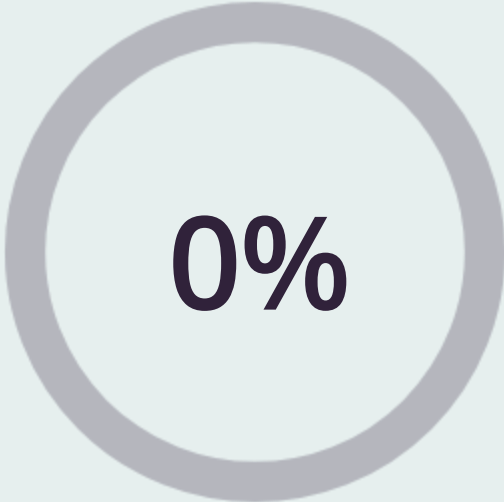
Delivered to MBH POWER in Lagos in 2013, highlighting our expertise in sustainable energy solutions.



## 2.08 MW MWM Gas Engine

Commissioned in 2014 for Fruit and Nutty in Lagos, reflecting our commitment to quality and performance.

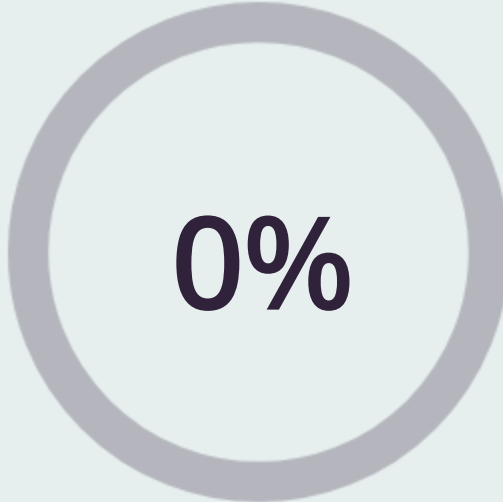
# ESG & HSE Commitment



## Annual HSE audits and certifications

FEL uphold a commitment to operational safety and regulatory

- Responsible waste management and disposal
- Zero gas flaring policies on EPF designs
- Renewable energy integration in power and utility projects
- Local employment and mentorship programs
- Community development (skills training, school support)
- Board oversight on compliance



## Zero gas flaring policies on EPF designs

FEL uphold a strict Zero Routine Gas Flaring policy

- Ethical procurement practices
- Transparent reporting systems
- Zero Harm culture and visible HSE leadership
- Daily toolbox meetings, permit-to-work systems
- Emergency response and evacuation drills
- Annual HSE audits and certifications

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# Connect Directly with Forst Empire Limited

Reach out for inquiries, partnerships, and the latest updates from our headquarters in Lagos



## Headquarters

Visit us at **2C Kosykay Terrace**  
**2,Dpkay District, Orchid**  
**Road,Lekki, Lagos State,**  
**Nigeria** to discuss inquiries and  
partnership opportunities.



## Support Line

Call **+234 703 9878293** for  
immediate assistance and expert  
guidance tailored to your needs.



## Email Us

Send questions or requests to  
**info@forstempire.com** for  
prompt, personalized email  
support.



## Official Website

Explore **www.forstempire.com**  
for detailed info about our  
services, news, and client  
resources.



## Social Media

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industry insights.