



Forst Empire Limited Company Profile

Integrated Engineering & Project Solutions



Orire

Managing Director

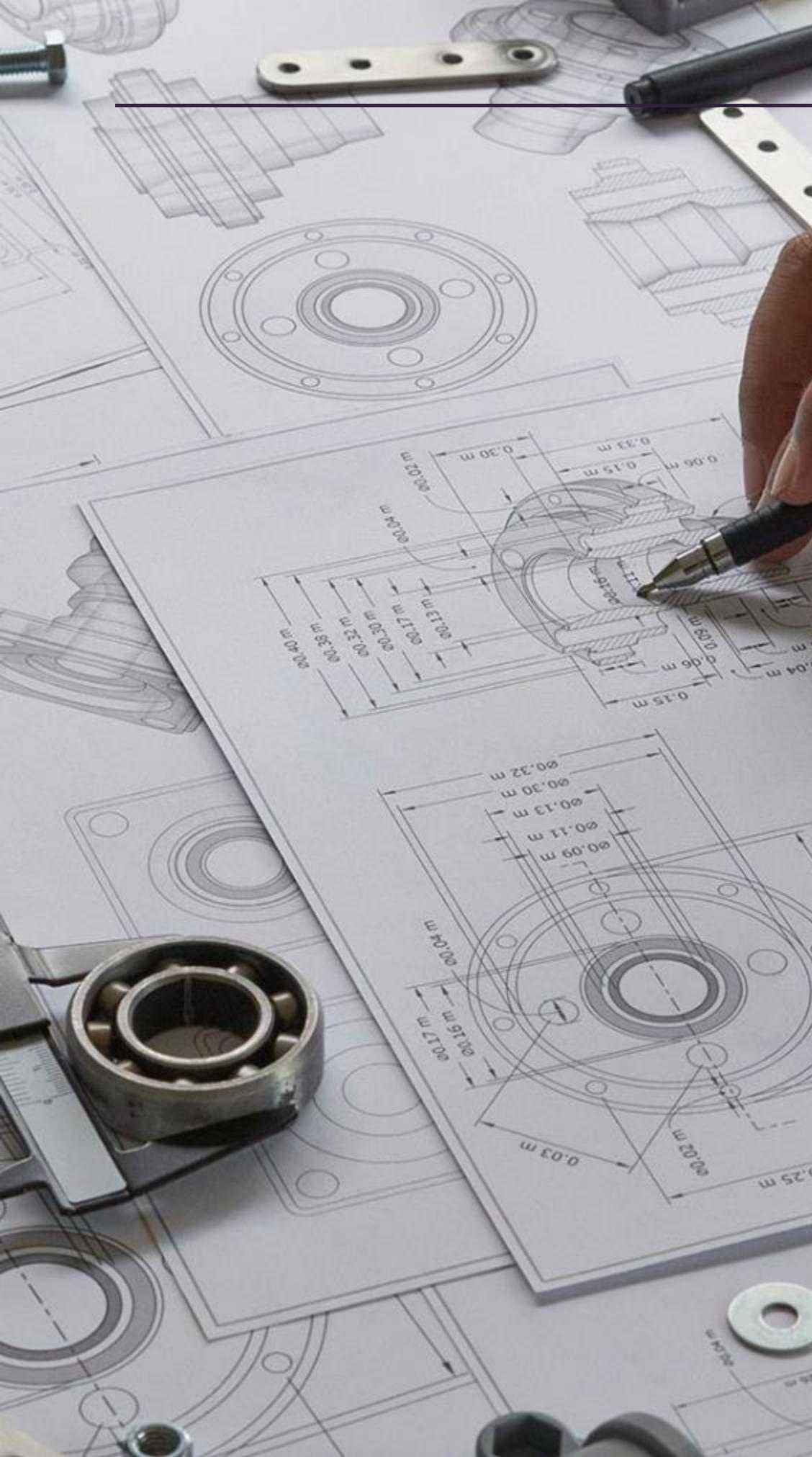




Executive Summary Forst Empire Limited is a fully integrated engineering, procurement, construction, installation and commissioning (EPCIC) company headquartered in Lagos, Nigeria. Positioned at the intersection of innovation and reliability, Forst Empire delivers high-impact solutions across the oil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

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.



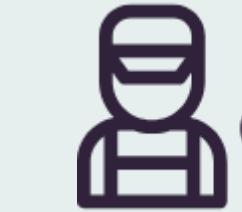
Manpower Sourcing



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



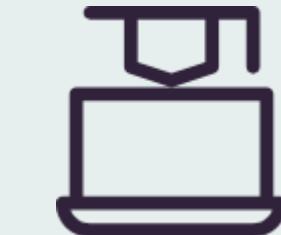
National Content Development (NCDMB aligned)



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

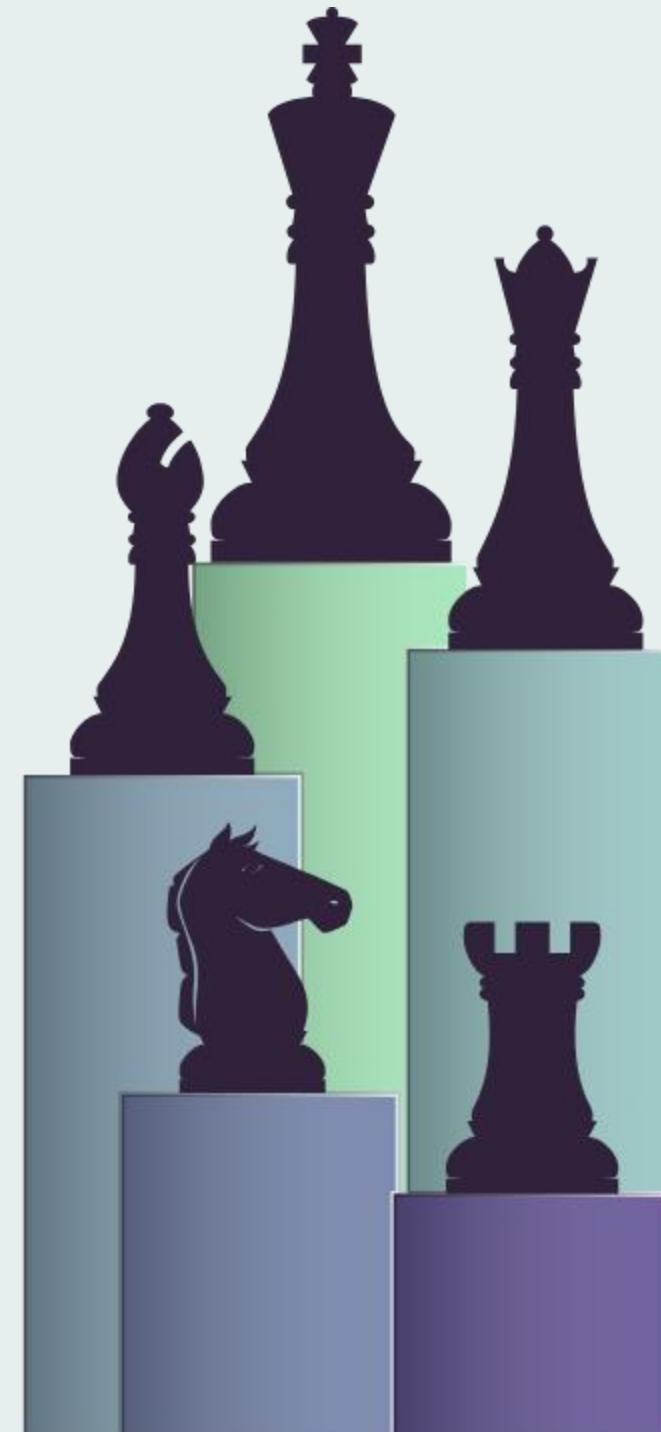
SCADA & Safety: Integration of remote operations, Emergency Shutdown (ESD), and Fire/Gas detection

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



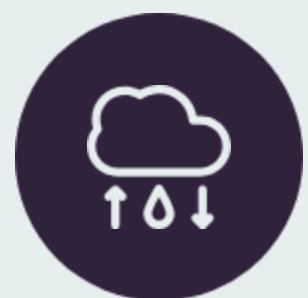
EPC of Pipelines



Pipeline systems form the arteries of the energy sector.



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



Hydrotesting &
Commissioning: Dewatering,
pigging, pressure testing



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



Pipeline Construction:
Welding, NDT, coating, and
trenching



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.

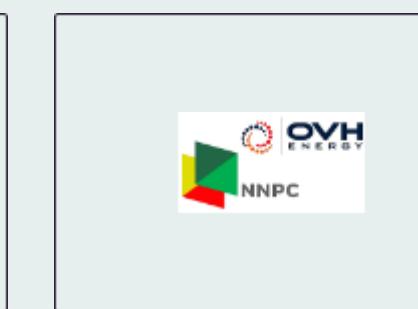
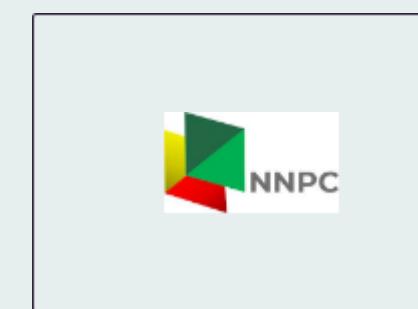
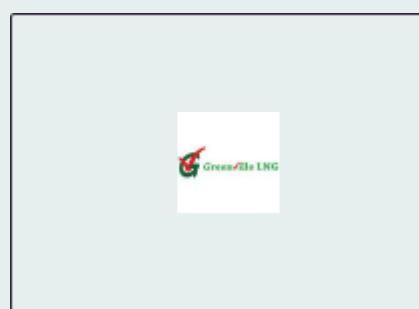
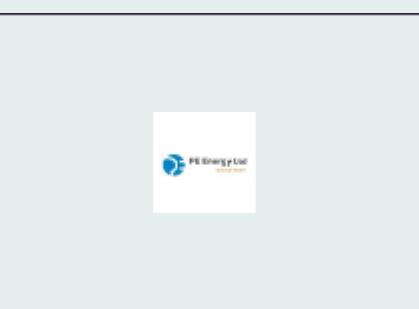
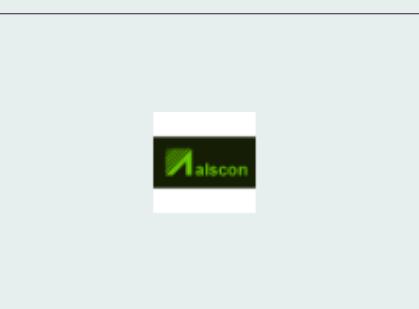
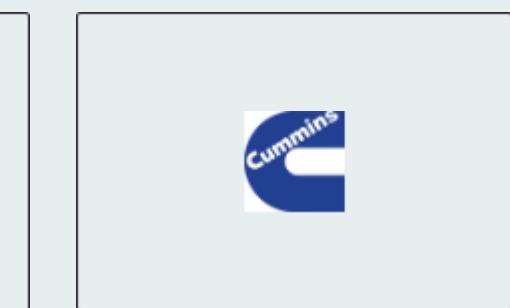
Strategic Partnerships





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.

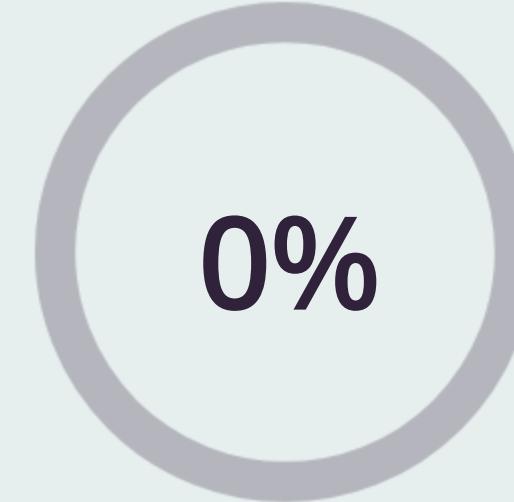
4 MW MWM Gas Generators

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.

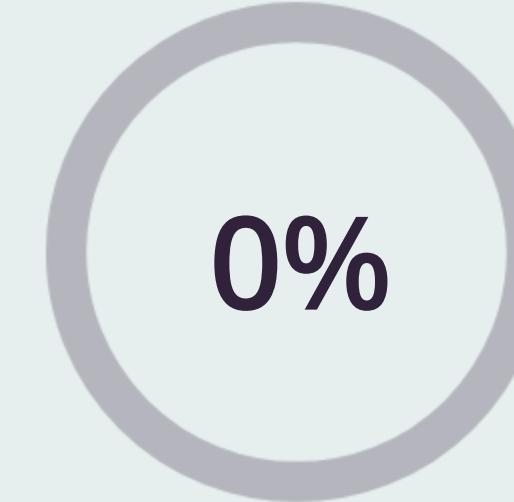
ESG & HSE Commitment



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

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
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prompt, personalized email
support.

Official Website



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services, news, and client
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