

COMPANY PROFILE



GENTEC ENGINEERING LIMITED

Measurement: Automation: Monitoring: Procurement: Calibration

DOCUMENT

Company profile

PREPARED BY

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1. CORPORATE BACKGROUND

Gentec Engineering Limited (GEL) is an indigenous company incorporated under the laws of the Federal Republic of Nigeria, with registration number **RC1422329**. GENTEC is registered with the relevant government regulatory agencies (DPR, etc) and has a current permit to serve her clients in all her areas of expertise.

The company was formed by a group of experienced and qualified professionals who have deployed a wide range of solutions on metering/monitoring, instrumentation and process control across major IOCs in Nigeria. GENTEC provides complete Measurement/monitoring, Instrumentation, Industrial control and Process Automation to Clients in Nigeria.

GENTEC serves a broad range of industries like oil and gas, breweries, water distribution and manufacturing sectors and provides answers tailored to each individual customer's requirements.

We are a multi-disciplinary team of solution providers dedicated to professionalism, quality, safety and ethical conduct in our relationships with our peoples, clients and other stakeholders. Our activities are research driven so as to make the best judgments all the time bearing cost effectiveness and efficiency in mind. We have keen interest in applying innovative technologies in solving technical challenges faced by our clients in their various industries.

Our 'golden rule' to project delivery is to do it right the first time or not at all.

GEL is built to serve, and we believe that performance is one of our success magic of keeping our customers. We strive to be at the fore front of Industrial technology application across Nigeria.

2. OUR MISSION & VISION

Our Mission

To provide excellent and comprehensive services to meet our customers' needs in a friendly and corporate environment and to deliver unrivalled quality and unique solutions that will yield optimal value at the least cost by qualified, experienced and highly motivated personnel using the best technology available.

Our Vision

To become a model company that provides services of first choice. Our aim is to provide first class services in the oil and gas, manufacturing, Telecommunications and marine industries.

Our keys for development:

- Desire for Excellence
- Trust and confidence build-up
- Innovation
- Transparency
- Teamwork

We believe in

- Motivation
- Collective responsibility and leadership
- Professionalism and ethics
- Adding values to our client needs

3. CORE AREAS OF COMPETENCE

METERING AND MEASUREMENT

Our services include independent metering expertise for natural gas measurement, LNG, hydrocarbon allocation for production and transportation, multiphase metering, and metering for environmental compliance including emissions and pollution related legislation.

Together with our business partners we supplies complete flow metering system solutions for custody transfer oil and gas projects. The innovative and proven metering systems are based on advanced technologies. Our engineered metering solutions are based on the latest technologies in line with the application and operational requirements and in accordance with international standards.

AS PART OF THE PACKAGE, WE CAN PROVIDE TURNKEY FLOW METERING SYSTEMS INCLUDING:

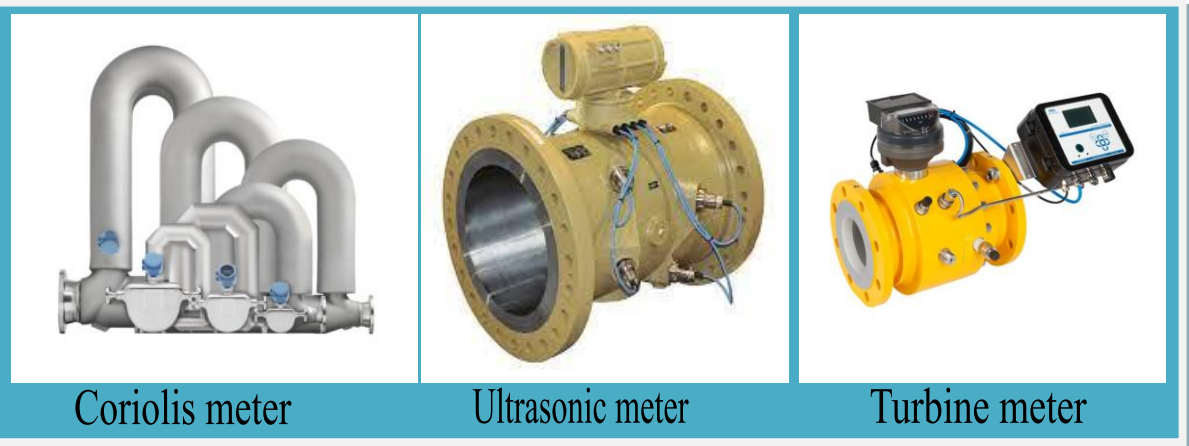
1. Full metering audit
2. Fully integrated metering skids
3. Flow meters (Ultrasonic, orifice, Coriolis mass, etc)
4. Valves and piping
5. Instrumentation (Temperature, pressure, etc.)
6. Metering houses with
7. Sampling systems
8. Analyzer systems (Agilent, ABB,SIEMENS, SICK)
9. Meter calibration and flow testing services for a wide range of liquid and gaseous meter types
10. Calibration of single and multiphase meters
11. Calibration of secondary and tertiary measurement instrumentation



Gas Metering Skid

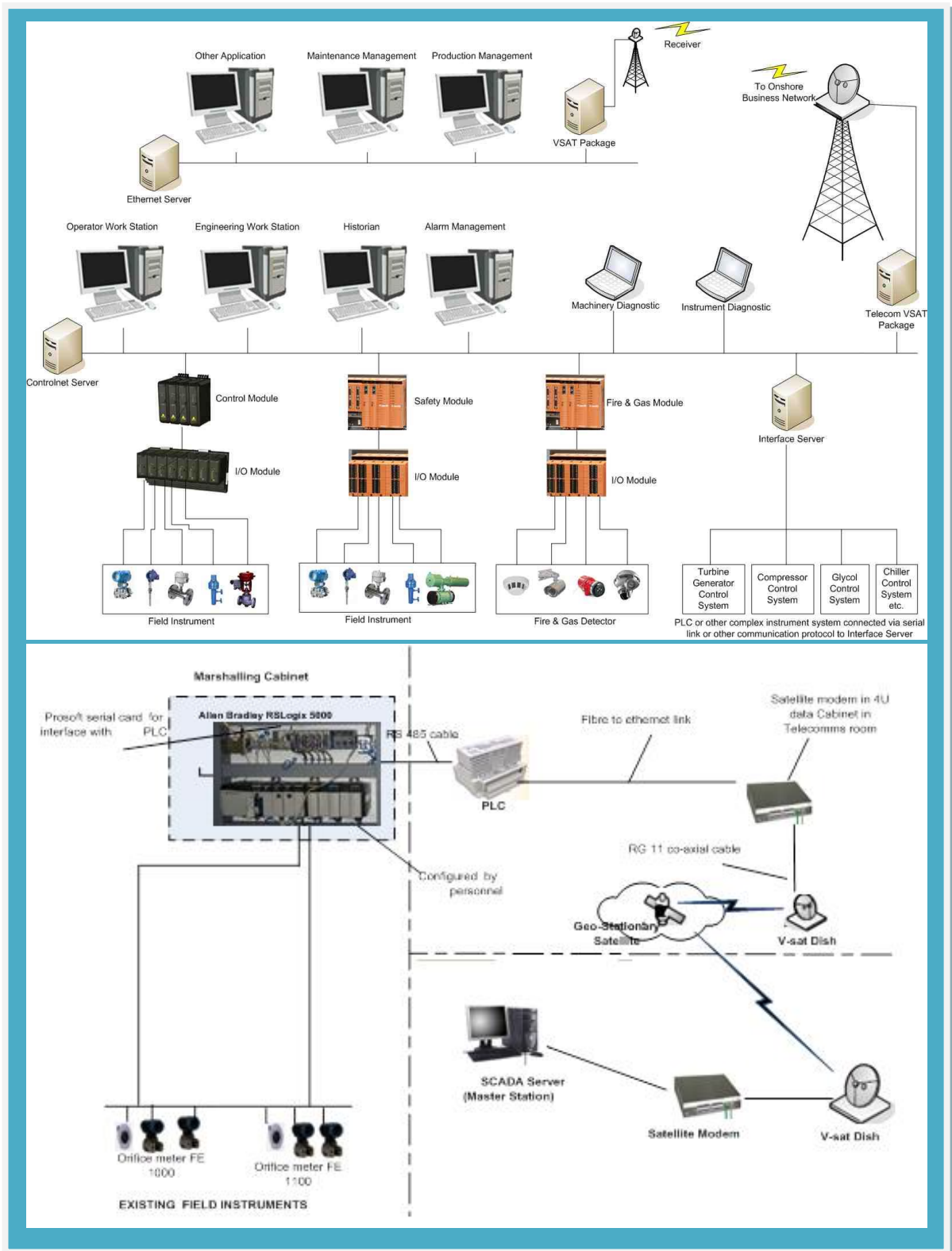
Meter Installation and Instrumentation & Control Systems

- ❖ Meter installation (We install orifice, coriolis, turbine, PD, thermal meters etc for accurate custody transfer measurement and monitoring)
- ❖ Instrument Calibration Services–Valves, Pumps, Skids, Recorders, Flow Computers etc
- ❖ Valves, Meters, Strainers, Pumps
- ❖ Process alarms, Emergency Shutdown valves, fire and gas detecting alarm systems



Process Automation

- ❖ PLC/SCADA/DCS based industrial Solution
- ❖ Remote Monitoring Systems for Wellheads, Plants, Terminals etc
- ❖ Plant Optimization Systems
- ❖ Stand Alone SCADA System
- ❖ Terminal Automation Systems



Pipeline Expansion and Repairs (Hot tapping)

- ❖ Hot tapping: Creation of tapping points from existing lines without necessitating a shutdown.
- ❖ Pipeline leak repairs either by welding or use of bonds with guaranteed joint integrity.



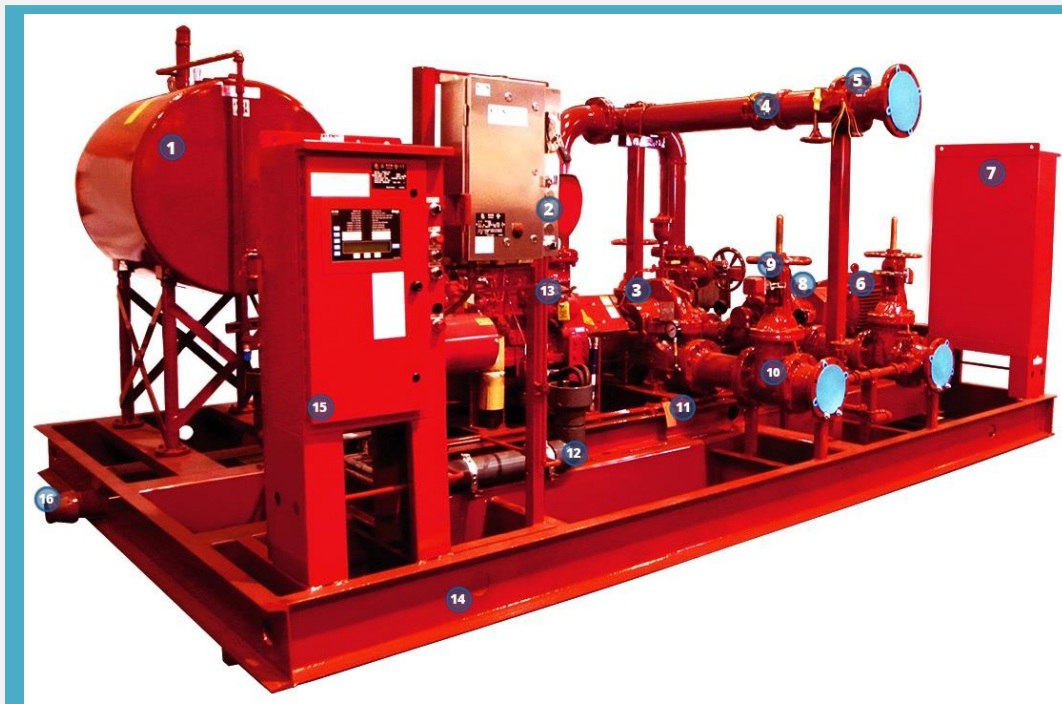
Process Optimization

- ❖ Steady state analysis of process systems
- ❖ Transient state analysis of process systems

Areas of Activity

- ❖ Upstream Oil Sector -Production facilities, gas plants, LNGs
- ❖ Downstream Oil Sector – Storage Tank farms, Refineries, Oil Terminals, Petrochemical plants, etc.
- ❖ Power Sector- Power Generation Companies
- ❖ FCMG – Breweries, Food processing, manufacturing etc.
- ❖ Gas Industry – LPGs, Gas Plants, LNGs, etc

Pre Packaged Fire System Design and Tank Fire System Installation



1. UL-142 Double Wall Day Tank
2. UL Listed Jockey Pump Controllers
3. UL/FM Fire Pump
4. FM Flow Meter
5. Throttling Valve
6. Electric Motor
7. UL/FM Electric Control Panel
8. Jockey Pump
9. Tamper Switches
10. UL/FM Listed OS&Y Gate Valves
11. Copper Sensing Lines
12. Schedule 8-CPVC Containment Piping for Fuel Piping
13. UL/FM Listed Diesel Engine
14. ASTM A36 Structural Steel Skid
15. UL/FM Diesel Control Panel
16. Floor Drain System



4. GENTEC KEY PERSONNEL

Our Team is vastly experienced. We have a pool of seasoned staff in employment and engage ad-hoc staff when major contracts are secured to accommodate qualified personnel in areas of operation due to the Nigerian Local Content Act/ Gentec Community Relations Policy. The cumulative working experience of our staff is over 100years whose experience and capabilities are far reaching. We maintain excellent training for all our personnel for them to be abreast with global technological innovations and best practice. Our senior personnel have over twenty years in the Oil and Gas, telecommunications, manufacturing and marine sectors. Our Engineers are available for reach within a twenty-four hours basis to advice clients as to the best suitable course of action needed to be applied in relation to their specific needs and in support and standby in terms of provision of required technical resources to ensure a hitch free project completion.

Engr. Uto Eferire – Managing Director / Project Director

Engr. Uto Eferire is a qualified engineer with a background spanning many specialties over a period of approximately 15 years. He is also determined to meet and exceed goals on a consistent basis by utilizing strong interpersonal communications, organizational and presentation skills driven to exceed expectations and willing to work efficiently and effectively.

Engr, Uto has great competence in project management and estimation, metering and measurement, Instrumentation, calibration, Gas Chromatograph, process automation, ICT, business development and sales.

Engr. Uto has successfully managed, installed, commissioned and Started up fiscal gas metering system on a National Project on Real time gas monitoring on custody transfer meters desired by the federal Government of Nigeria/Ministry of Petroleum Resources/Department of Petroleum Resources (DPR) cutting across over 120 oil and gas onshore and offshore facilities in Nigeria. He has also commissioned and started up several gas metering skid and LACT units.

He has installed, commissioned and started up several measurement meters like orifice, turbine, PD and ultrasonic and interfacing with Distributed Control System like ABB Totalflow control panel, Emerson Delta V DCS, OMNI FLOW computer, Honeywell TDC 3000 DCS, Allen Bradley PLC.

Engr Uto has also installed and commissioned smart electronic multivariable transmitters to replace manually operated Barton Chart Recorder on custody transfer point on gas and oil flow line (ABB Totalflow flow meters with integrated ABB online Natural Gas Chromatograph (NGC), Cameron Scanner 2000, Multivariable Flow Transmitters (MVT) and Flow Dynamic Flow Computer MVT) and Calibration of Smart Instrument.

For personal development and research he has been opportune to present a paper on the Analysis of manufacturing industry/target market of carbon black in Africa during the world carbon black conference in Vancouver, Canada. I have a certificate in Project Management from the University of Waterloo, Canada, a Diploma in Metering from Norsk Forening for Olje-og Gassmaling (NFOGM), certificate in Programmable Logic Controllers (PLCs) and SCADA System from Engineering Institute of Technology, Australia, An ABB student on various ABB measurement products and a Bachelor of Engineering Degree in Mechanical Engineering from Ambrose Alli University, Ekpoma, Edo State, Nigeria and several other training and development.

Engr. Patrick Enezigha – Project Manager

Engr. Patrick Enezigha, Nigerian, is the Project Manager of GENTEC. He has vast experience in the Nigerian Oil and Gas market. He is responsible for the overall management of the Company, particularly marketing, operational, research and development activity. He graduated from the University of Benin, Edo State, Nigeria with a Bachelors degree in Mechanical Engineering. He was one of the project engineers in the Niger Delta Areas of Nigeria that implemented the pioneer project on Real Time gas Monitoring Project for The Federal Government of Nigeria/Department of Petroleum Resources (DPR). His vast experience cuts across major international oil companies in Nigeria (SPDC, Chevron, Total, Agip) etc and National Oil Companies (Seplat, Mid-Western, Niger Delta Petroleum Resources etc).

He is a Member of The Nigerian Society of Engineers (NSE), Nigerian Institution of Mechanical Engineering (NiMechE), Pipeline Association of Nigeria (PLAN), Nigerian Institute of Safety Professionals (NISP) etc. His many years of experience is in Custody transfer/ allocation metering of Hydrocarbons, Process engineering, Instrumentation and Control, automation, Real-Time monitoring solutions, project management, , operations, marketing and sales, and general management in the Oil and Gas Industry.

Paul Peter Ebohemieh-Chief Operating Officer

Mr Paul Peters Ebohemieh is the Chief operating Officer of GENTEC He ensures day to day smooth operations of the company and constantly defines a road map for the company. He holds a masters degree in Energy features from the University of Aberdeen, Scotland, United Kingdom. He is very versatile in the areas of flow assurance, Procurement, Project planning etc. He is a member of the Society of Petroleum Engineers (SPE) amongst other professional bodies.

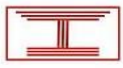
Barr. Oluwakemi Olaniyan – Legal Advicer

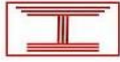
Miss Oluwakemi Olaniyan, Nigerian is the Legal Adviser of Gentec. Another founding member, she holds a degree in Law from Obafemi Awolowo University , Ile-Ife, Osun State. She is very versatile in the Nigerian Oil and Gas law and Petroleum Act. She is a member of the Nigerian Bar Association (NBA). She is currently responsible for corporate affairs, corporate planning, risk management, regulatory, human resource and administrative matter.

5. PREVIOUS WORK AFFILIATIONS

Gentec Technologies was borne in recognition of the huge metering challenge in the industry and the need to provide state of the art solution to mitigate these challenges. GEL has a record of accomplishments for executing and managing Projects requiring multi-disciplinary skills.

Key personnel of GEL have a complete knowledge of metering challenges in the industry and have positioned themselves at the forefronts in providing solutions to these problems.

S/N	CLIENT	PROJECT TITLE	SCOPE	STATUS
1	 1. CALABAR GENERATION COMPANY LTD 2. GEREGU GENERATION COMPANY LTD 3. ALAOJI GENERATION COMPANY LTD 4. OMOTOSHO GENERATION COMPANY LTD 5. OLORUNSOGO GENERATION COMPANY LTD 6. GBARIAN GENERATION COMPANY LTD 7. IHOVBOR GENERATION COMPANY LTD 8. SAPELE OGORODE GENERATION COMPANY LTD	1. Procurement Installation and Commissioning of Gas Turbine meters 2. Quarterly Calibration of Gas Metering devices for 8 NDPHC Locations	1. Installation and commissioning of 2" and 4" turbine meters on gas generator and heater lines. 2. Upgrade of metering skid with flow computer, gas chromatograph and orifice meter at 8 NIPP Locations 3. Quarterly Calibration of Gas Metering devices for 8 NDPHC Locations	1. Completed 2. Ongoing
2	 PLATFORM PETROLEUM LIMITED (EXPORT GAS SKID)	1. Quarterly Calibration of Gas Metering devices 2. Design, Installation and	1. Calibration of gas metering devices on gas metering skid 2. Design, Installation and Commissioning of Lean Gas Metering Skid	1. Ongoing 2. Completed

		Commissioning of Lean Gas Metering Skid		
	 PLATFORM PETROLEUM LIMITED (FLOW STATION)	1. Quarterly Calibration of Gas Metering devices 2. Installation of Thermal Gas meters at every egress points at flow station	1. Calibration of gas metering devices on gas metering skid 2. Design, Procurement , Installation and maintenance of Thermal gas meter and flow Totalizer	1. Ongoing 2. Completed
	 NGC /PLATFORM PETROLEUM LIMITED (COMPRESSION STATION)	1. Quarterly Calibration of Gas Metering devices	1. Calibration of gas metering devices on gas metering skid	1. Ongoing
	 SAVANNAH ENERGY ACCUGAS LIMITED (A SAVANNAH ENERGY PLC SUBSIDIARY)	1. Meter integrity and calibration of OMNI Flow Computer 2. Procurement ABB Gas Chromatograph	1. Meter reading validation using focal and calibration of OMNI Flow computer 2. Procurement ABB Gas Chromatograph	1. Ongoing 2. completed
3	 PNG GAS	3. Quarterly Calibration of Gas Metering custody transfer devices 4. Calibration of Pressure Safety Valves	3. Calibration of custody transfer metering devices at receiving end of PNG for Platform Petroleum 4. Calibration of 100units of pressure safety valves	2. Ongoing 3. Completed
4	 PowerGas Africa Limited	1. Quarterly Calibration of Gas Metering custody transfer devices	1. Calibration of lean Gas custody transfer metering devices	1. Ongoing
4	 PAN OCEAN NIGERIA	Calibration of Pressure Safety Valves	2. Calibration of 54 units of pressure safety valves	1. Completed

5	 Ministry of Petroleum Resources Federal Republic of Nigeria  DEPARTMENT OF PETROLEUM RESOURCES The Petroleum Regulatory Agency of Nigeria FEDERAL MINISTRY OF PETROLEUM RESOURCES	Real Time Gas Monitoring across over 230 field locations operated by Major International Oil Companies/ National Oil Companies	1. Provision of SCADA end-to-end design 2. Procurement of smart multivariable transmitters 3. Commissioning of Real-Time Gas Monitoring equipment. 4. This project is one of the biggest projects ever awarded to an indigenous company in Nigeria. Companies we worked in the facility during the project include: SHELL,CHEVRON, AGIP, TOTAL , SEPLAT , MOBIL	Completed
6	 SEPLAT PETROLEUM	Automated metering System for Accurate Natural Gas Audit	1. Installation of smart multivariable transmitters/flow computers	Completed
7	SAPELE POWER PLANT, OGORODE	Installation of Fox thermal meters for gas supply installation on a 32-inch gas line from Seplat Petroleum	Creation of tapping point for installation of Fox thermal insertion probe for temperature and volumetric measurement.	Completed
8	 Energy lives here™ EXXON MOBIL	Upgrade of fuel dump system for quick dispensing of AGO and PMS	Erection of gantry structure and automation of fuel dump dispensing system for AGO and PMS	Completed
9	STERLING GLOBAL LIMITED	Correction of flow measurement anomaly for roaxer 2600 non-gamma multiphase flow meter	Diagnosing, data integrity checks, repair and calibration of flow multiphase flow meter	Completed
10	 —energy company of reference— ENERGIA NIGERIA LIMITED	Complete Metering solution	Provision of gas flow meters for H.P, L.P and flare lines; Crude export line	Completed

6. PARTNERS

To provide end to end solution, we partner with the following companies for sales, installation and commissioning of their products. We also provide after sales support on their products. A partial list of these partners includes:

■ ORIGINAL EQUIPMENT MANUFACTURERS (OEMs):

