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**PROJECT TITLE: GBARAN- UBIE PHASE II**

**Client:** SHELL

**Project scope:**
The scope of the EPC CONTRACT (Package 2) includes the review of the detailed design package; residual Engineering Procurement, Construction/Installation, pre-commissioning, commissioning and hand-over of the pipelines and inter-site cables. This excludes the new on-plot facilities at the CPF and Remote sites manifolds.

**EPC Contractor:** MORPOL

**Local Engineering Contractors:** International Energy Services Limited
PROJECT TITLE: UPGRADE OF TEMA REGULATING & METERING STATION

Client: West African Gas Pipeline Company (WAPCo)

Project scope:

Front End Engineering Detail design Upgrade of the Regulating and metering station at TEMA.

• Improve the gas handling capacity of Tema metering station from 70 MMSCFD to 130 MMSCFD.
• Upgrade the power generation by adding an additional 100Kva gas generator to the station
• Install a new gas chromatography unit for gas specification measurement at Tema.
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PROJECT TITLE: OUTSTANDING ENGINEERING WORKS ON GPP I AND II

Client: PAN OCEAN

Completion of outstanding Engineering works on GPP II, de-bottle neck and modification works on existing GPP and as to integrate both GPP I & II Gas plant facility, and the design of LPG storage tanks.
PROJECT TITLE: EGINA FIELD DEVELOPMENT
PROJECT FPSO Design

Client: TOTAL

Project scope: General Project Management, Procurement, 3D Modelling of modules, detailed engineering design covering Piping, Process, Mechanical, Electrical, Instrumentation, Structural, Safety and Telecom

EPC Contractor: Samsung HHI

Local Engineering Contractors: International Energy Services Limited
PROJECT TITLE: ERHA NORTH PHASE 2 PROJECT

Client: EEPNL/CAMERON

Project scope:

System engineering involving generation layout drawings; system block diagrams and other system type documentation.
Detailed engineering support for the manifolds and foundation designs, such as 3D modeling of manifold-foundations, engineering analysis, and provide calculations, structures of 2 and 6 slots production manifolds and the ok water injection manifolds.
Participate in detailed engineering support of jumper kits including modeling and drawings of the jumper components, jumper kit assemblies, etc.
PROJECT TITLE: ETAN FPSO FEED PROJECT

Client: AGIP/BWO OFFSHORE

Project scope: The scope of the Etan Field project is to develop a leased FPSO having a processing capacity of 60,000 BOPD and storage capacity in the range of 0.6 to 1 million barrels of processed oil. Also includes water injection, gas treatment, export capabilities with Tandem configuration for Offloading FPSO.
PROJECT TITLE: NPDC LACT & METERING UNITS PROJECT FEED

Client: Nigeria Petroleum Development Company

Project scope: The scope involves the design of 12 LACT (Lease Automatic Custody transfer) & Metering unit with capacities ranging from 25000bpd to 60000bpd at NPDC Flow stations.
PROJECT TITLE: DSO Offshore PROJECT

Client: Chevron Nigeria
EPC Contractor: HHI- Hyundai Heavy Industries
Local Engineering Contractors: International Energy Services Limited

Project scope:

A. The GGCP scope involves
   • 120 MMSCFD Capacity
   • 2 x 50% Gas Compression Trains
   • 2 x 100% Solar Centaur 40 Turbine Generator Sets
   • 1 Essential power generation package 1 x 40T Platform Crane Utilities
   • Flare system designed to handle flare volumes of entire Meren 1 complex (170 mmscfd).
   • Bridge connected to Meren 1 PP SONAM Non-associated Gas Well Platform

B. The NWP involves
   • 300 MMSCFD Capacity
   • 9 Well Slots (increased to 12 slots)
   • Well Testing Equipment
   • Chemical Injection
   • 1 x 20T Platform Crane
   • 2 x 100% main power generation
   • 1 Essential power generation package
   • Utilities
   • LQ with helideck to be installed on separate jacket with bridge connection to NWP.
PROJECT TITLE: ENGINEERING DESIGN FOR OFON 2

Client: TEPNG
EPC Contractor: Ponticelli
Local content Partner: IESL

Project scope:

Engineering works without being limited to piping, 3D model, equipment and structure engineering:

- On OFDI Platform (including OFPI/OFDI Bridge)
- On OFD2 platform
- On OFD3 and OFD5 Platforms
- On AMENAM Platforms
- On ODUDU ODP1 Platform
PROJECT TITLE: AGBAMI FPSO DESIGN ENGINEERING SUPPORT SERVICES

Client: Star Deep Water Petroleum Limited (Chevron Nigeria Limited)

Project scope: Engineering support for Agbami Project includes:
- Test Separator Optimization
- Life Boat Area Extension
- Stabilization Column Balancing
- Detailed Design For Additional support offshore Bunk
- Piping modification
- Closed drain support
PROJECT TITLE: OFON 2, OFP2 DETAILED ENGINEERING DESIGN

Client: TOTAL UPSTREAM NIGERIA LIMITED (TEPNG)

Project scope:
Engineering and detailed design for Topsides, Drain, Main, Mezzanine and upper Decks. It includes the design and engineering of a new central processing platform (OFP2) with: Oil treatment and new export pumps, Gas compression systems, Gas Dehydration, Seawater/produced water treatment and injection system Utilities, HP and LP flare systems, Multiphase intrafield flowlines, Gas lift pipelines, Water injection pipelines, Gas export pipeline.
PROJECT TITLE: USAN FPSO DETAILED ENGINEERING DESIGN

Client: TEPNG - Total Exploration & Production Nigeria

Project scope:
- Engineering and detailed design for Helideck and support
- Detail Engineering of P1 Laydown area
- Detail Engineering of Module P4 and 56
- P4 Future Module
- Project Management and Coordination
PROJECT TITLE: USAN OPERATING MANUAL PRODUCTION

Client: TOTAL EXPLORATION & PRODUCTION NIGÉRIA (TEPNG)

Contractor: Impaqt Conseil (France)

Project scope: The present Scope of Work includes the Description of the USAN Facilities made up of a Floating Production Storage and Offloading unit (FPSO) with 25,000 tons topsides, 180 kbopd processing capacity, 185 MMScf/d Gas re-injection capacity, Accommodation facilities for 130/180 persons, Power Generation of 3 x 30Mw (ISO), 2 millions barrels storage capacity and oil export offloading buoy, Umbilicas, Flowlines and Riser system (UFR) comprising of 63 km flowlines and 71 km Umbilicas and Subsea Production System (SPS) made up of 8 manifolds, 23 Producer wells, 9 Water injector wells and 10 Gas injector wells.
PROJECT TITLE: NOPL- Northern Option Pipeline  
Project Operating manual

Client: TEPNG  
Contractor: Impaqt Conseil (France)  
Sub - Contractor: IESL

Scope of work includes Writing of system description, Operational Procedure, Degradation mode, Normal Operation, System criticality, Shutdown Philosophy, Control Philosophy, Normal Start-up, Emergency Start-up Procedure, Safety Systems for the Northern Option Pipeline (NOPL) gas pipeline to transport gas from TEPNG (Obite facility) in order to distribute to other customers (NGC facility) in the eastern domestic gas (DOMGAS) market network.

Modules/system include:
- Pig Lunching system
- Open drain system
- HPU Unit
- Leak detection system
- Cathodic protection
- Gas Power Generation
- Electrical Distribution
- Insulation/Heat tracing
- Telecom
- HVAC
- Gas metering Skid