



FIRST EXPLORATION & PETROLEUM DEVELOPMENT COMPANY LIMITED

Operator of the NNPC/FIRST E&P Joint Venture

TENDER OPPORTUNITY: PROVISION OF ENVIRONMENTAL MONITORING SERVICES FOR NNPC/FIRST E&P JV OPERATIONS (NipeX Tender No:100005956)



1.0 INTRODUCTION

FIRST Exploration and Petroleum Development Company Limited, on behalf of NNPC/FIRST E&P Joint Venture, intends to contract for the provision of Environmental Monitoring Services for a firm period of two (2) years plus one (1) year optional extension.

FIRST E&P therefore uses this medium to inform suitable and reputable Companies having requisite experience and resources for the execution of a project of this magnitude to register or update their registration with NipeX for consideration in the subject opportunity.

2.0 SCOPE OF WORK/SERVICE REQUIREMENT

The selected Contractor is required to provide Environmental Monitoring Services to support ongoing production operations in Anyala West, drilling and completion campaign in Madu and subsequent project activities (exploration, drilling and completions) and production operations in other fields within OMLs 83 & 85, offshore Nigeria. The Selected Contractor is required to have the experience, capability, equipment, and personnel to execute these services in accordance with, but not limited to the following specific requirements

2.1.1 Environmental Monitoring for Production Operations

Weekly on-site sampling/measurements/monitoring of:

- Production effluents (produced water, ballast water and slops) on the Abigail Joseph FPSO at NUPRC registered point sources
- Sanitary water (sewage) from NUPRC registered point sources
- Storm water/deck drainage/rainwater from established stations
- Recipient offshore water, within the 500m maritime exclusion zone of the Abigail Joseph FPSO
- Biological monitoring within OML 83 offshore discharge zone
- Meteorological and air quality parameters from established stations
- Laboratory analysis of field samples for physicochemical parameters, heavy and trace metals, nutrient sand antinutrients, oil and grease and biological parameters
- All sampling/measurements/monitoring shall be in strict compliance to the requirements of the NUPRC as contained in the Environmental Guidelines and Standards for the Petroleum Industry in Nigeria (EGASPIN 2018) and the FME as contained in the National Guidelines and Standards for Environmental Pollution Control in Nigeria, 1991.
- Interpretation of laboratory analytical results and report preparation (Upon completion of each round of sampling and analysis), to satisfy the requirement of the NUPRC and FME.
- Submission of monthly and quarterly reports.

2.1.2 Environmental Monitoring for Drilling & Completions Operations

- Sampling of drilling fluid for Toxicity 96-hr LC50, mercury and cadmium testing at NUPRC specified intervals
- Sampling and testing of drill cuttings for oil-in-cuttings, Toxicity 96-hr LC50 and free oil at NUPRC specified intervals
- Radiation monitoring within the drilling facility to determine/track background levels and levels in circulating fluid/mud, equipment environment and personnel
- Weekly on-site sampling/measurements/monitoring of:
 - Surface water and water column at Offshore Discharge Zone (ODZ)
 - Sanitary water (sewage) from NUPRC registered point sources
 - Storm water/deck drainage/rainwater from established stations
 - Recipient offshore water, within the 500m maritime exclusion zone of the drilling rig
 - Meteorological and air quality parameters from established stations
 - Laboratory analysis of field samples for physicochemical parameters, heavy and trace metals, nutrient sand antinutrients, oil and grease and biological parameters
- All sampling/measurements/monitoring shall be in strict compliance to the requirements of the NUPRC as contained in the Environmental Guidelines and Standards for the Petroleum Industry in Nigeria (EGASPIN 2018) and the FME as contained in the National Guidelines and Standards for Environmental Pollution Control in Nigeria, 1991.
- Interpretation of laboratory analytical results and report preparation (Upon completion of each round of sampling and analysis), to satisfy the requirement of the NUPRC and FME.
- Submission of monthly and quarterly reports

2.1.3 Greenhouse Gas (Including Methane) & Gaseous Point Source Emissions Monitoring

- Weekly measurements/monitoring of Greenhouse Gas (GHG) (including Methane) emissions from NUPRC registered point sources on the AJ FPSO, ANDPI and MADP1
- GHG that will be monitored are Carbon (IV) Oxide (CO₂), Methane (CH₄), Nitrous Oxide (N₂O), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs) and Sulphur Hexafluoride (SF₆)
- Monthly estimation of GHG volumes emitted from FIRST E&P operations using data to be provided by company
- Weekly measurements/monitoring of meteorological, noise and ambient air quality parameters from NUPRC registered point sources on the AJ FPSO, ANDP1 and MADP1.
- Meteorological parameters that will be monitored are noise levels, wind velocity, wind direction, wind turbulence and relative humidity
- Ambient air quality parameters that will be monitored include suspended particulate matter (SPM), Carbon Monoxide (CO), Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂), Lead (Pb) and Hydrogen Sulphide (H₂S).

2.1.4 Environmental Monitoring/Evaluation for Post- Production and Drilling Operations

- In compliance with the requirements of NUPRC EGASPIN 2018 and FME National Guidelines and Standards for Environmental Pollution Control in Nigeria 1991, Environmental Evaluation and/or Seabed Surveys will be carried out at specified periods/intervals from the commencement of production operations or upon completion of drilling operations
- Environmental Evaluation or Seabed Surveys will involve Scoping, Sampling Design, Offshore Sampling and Laboratory Analysis/Characterisation of samples from the following media:
 - Surface water and water column
- The parameters to be analysed for /investigated shall include: pH, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Chlorides, Nutrients (Phosphate, Calcium, Sulphate, Nitrates), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Alkalinity, Turbidity, Volatile Organic Compound (VOC) and Heavy Metals
- Surficial sediment
- The parameters to be analysed for /investigated shall include: Texture (Sand, Clay and Silt %), pH, Conductivity, Salinity, Organic

- Matter, Nutrients (Phosphate, Sulphate, Nitrate, Total Petroleum Hydrocarbon (TPH) and Heavy Metals
- Plankton and benthic macrofauna
- The parameters to be analysed for /investigated shall include: population and diversity of Phytoplankton, Zooplankton and Benthos Macrofauna
- Ambient air
- The parameters to be analysed for /investigated shall include SOX, NOX, COX, VOC, BTEX, Suspended Particulates and Noise Levels
- Provision of Standard Environmental Analytical Laboratory, Equipment and Materials for Onsite Sampling, Samples Collection, In-situ analysis and measurements and physical, chemical and biological analysis of samples.
- Report preparation (Upon completion of each round of sampling and analysis), to satisfy the requirement of the NUPRC and FME.
- Provision of Technical Advice to support the implementation of the Environmental Management Plan (EMP), as contained in the approved Environmental and Social Impact Assessment (ESIA) Report and to meet the requirements of the Environmental Impact Statement (EIS) issued by the FME.

3.0 MANDATORY REQUIREMENTS

- To be eligible for this tender exercise, interested contractors are required to be pre-qualified in NipeX Joint Qualification System (NJQS) product code **3.02.02 Safety, Health and Environment Consultancy Services**. All successfully pre-qualified Suppliers in these categories will receive Invitation to Technical Tender (ITT).
- To determine if you are pre-qualified and view the product/service category you are listed for: Open <http://vendors.nipexjqs.com> and access NJQS with your log in details. Click on Products/Services Status tab to view your status and product codes.
- If you are not listed in a product/service category you are registered with NUPRC to do business, contact NipeX office at 8, Bayo Kuku Road, Ikoyi, Lagos with your NUPRC certificate as evidence for verification and necessary update.
- To initiate the JQS pre-qualification process, access www.nipex-ng.com, click on services tab followed by NJQS registration.
- To be eligible, all tenders must comply with the Nigerian Content requirements in the NipeX system

4.0 NIGERIAN CONTENT

Bidders are invited to express complete understanding and willingness to develop in-country capability and capacity for related work packages in compliance with the Nigerian Oil and Gas Industry Content Development Act (NOGICD, 2010)

Pursuant to the above, bidders' submissions shall be evaluated strictly with the minimum evaluation criteria defined in the NOGICD Act; only bidders' whose submissions comply shall proceed to the next stage of the tender process.

The information/documentation that will be required to be submitted by bidders at the ITT stage among others are as follows:

- Provide evidence of company Ownership Structure form CO2 and CO7, registration on NOGIC JQS and NUPRC certificate.
- Provide a Nigerian Content Plan which shall explain the methodology of how it intends to comply with the requirements of the NOGICD Act and how to achieve the set target(s) in the Schedule of the NOGICD Act and any targets set by The Board.
- All vessels to be engaged in this project or service must be categorized as Nigerian owned in the NCDMB latest Marine vessel categorization publications via the NOGIC JQS.
- Provide a project-specific organogram showing Names and Nationalities of all key personnel not limited to just key personnel that will execute the work scope for this service.
- For any equipment, component, spares, packages etc - Provide evidence of a valid Nigerian Content Equipment Certificate (NCEC) issued by NCDMB in respect of equipment to be deployed in the execution of the work scope. Required Categories are "QS" or "EC" (or a valid Category "C" for Environmental Services under the old NCEC guidelines)
- In line with the NCD Human Capacity Development Initiative, Bidder shall commit to providing Project-Specific training, man-hour, budget, skill development and understudy plan for Nigerian personnel utilizing OGTAN registered trainer(s) or other approved NCDMB training institution(s).
- Provide a plan of how it intends to give first consideration to materials manufactured in Nigeria as well as assembled goods of Nigerian origin which shall include a breakdown of all materials and consumables to be utilized and identifying those that are found locally, finished products and materials that will be procured from Nigerian manufacturing and assembly plants, finished goods that order can be placed from outside Nigeria through Nigerian authorized vendors and accredited agents and those that would be directly imported.
- The tenderer shall provide a detailed description of the location of in-country committed facilities not limited to the administrative office, technical office equipment, storage, workshops, repair and maintenance facilities for the execution of the work scope.
- Details of in-country procurement plan and Binding MOA to source goods and materials with names and addresses of the Nigerian suppliers.
- The tenderer shall in line with NCDMB Community Content Guideline develop a Community Content Plan for review and approval by the Board.

NOTE: Bidders shall be requested to provide evidence to show their compliance with the above listed requirements at the ITT stage. Failure to meet the Nigerian Content requirements is a "FATAL FLAW."

5.0 CLOSING DATE

Only tenderers who are pre-qualified with NJQS Product code **3.02.02 Safety, Health and Environment Consultancy Services** as of **27 July 2022** being the advert close date shall be invited to submit both Technical and Commercial Bids.

6.0 ADDITIONAL INFORMATION

This advertisement of "Tender Opportunity" shall not be construed as a commitment on the part of FIRST E&P, nor shall it entitle Applicants to make any claims whatsoever and/or seek any indemnity from FIRST E&P and/or any of its Partners by virtue of such Applicants having responded to this Advert.

Please visit the NipeX portal at www.nipex-ng.com for this advert and other information.

MANAGEMENT