



**Tender Opportunity:  
Provision of Seismic Data Processing Services  
NIPEX NUMBER: 100006042**

**1. INTRODUCTION**

Esso Exploration and Production Nigeria Limited (EEPNL), operators of NNPC OML 133, Esso Exploration and Production Nigeria (Offshore East) Limited (EEPNOE), operator of OML 138, Esso Exploration and production Nigeria (Deep Water Ventures) Limited (EEPNDV), operators of NNPC OML 139 and Esso Exploration and Production Nigeria (Upstream) Limited (EEPNU), operator of OML 154, collectively referred to as "Esso" plans to engage competent and qualified contractors for the provision of 3D/4D Seismic Data Processing Services over parts of its fields within the NNPC/Esso PSC acreages.

**2. SCOPE OF WORK**

The scope of work includes, but is not limited to the provision of 3D/4D, 1C-4C Seismic Data Processing in Time and/or Depth, using associated seismic processing software tools and highly qualified specialist personnel. Interested companies must be able to provide the following aspects of Seismic Data Processing:

**A. General Description**

- a. Scope of the contract is best described as covering pre-processing through imaging efforts of various seismic data types (1C-4C) with a targeted goal of meeting the requisite objectives using the best methodologies to resolve data and imaging problems that are common in the PSC acreages (OML 133, 138, 139, & 154) of the Niger delta.
- b. Processing will be largely Anisotropic prestack depth migration (3D and/or 4D). It will require advance velocity model building capacity (Full wave inversions and tomography) as essential technologies for the projects. Success will require strong collaboration between experts from the contractor and Esso, as well as an iterative, integrated, creative and highly interpretive approach.
- c. Fault surfaces will need to be depth interpreted and become surfaces that separate velocity contrasts within the model. Anisotropic parameters will need to be constrained by available well data, as well as geological surfaces. Finding the proper combination of depth imaging algorithms and model building will require some trial and error testing

**B. Input Data and Area**

- d. Input data for the project will be either newly acquired or heritage seismic data from the PSC acreage(s) and size will range from approximately **250 - 1500 km<sup>2</sup> (full fold)**. Heritage data includes conventional streamer and broadband streamer ranging from 4000-600m cable length. Record lengths span 6.0 – 9.0 seconds data. Bin sizes range from 6.25m to 12.5m in inline spacing and from 6.25m to 12.5m in cross line spacing. Data will be processed preserving dynamic range as required.

**C. Generalized Breakdown of seismic Data Processing Services**

The services can be broken down into these three general categories:

- e. Hi-end preprocessing from navigation merged field tapes. Noise mitigation, multiple suppression and signal enhancement are critical, particularly in fault shadow and shallow gas areas. Bin and regularize the data prior to migration.
- f. Iterative Anisotropic Velocity Model Building to accurately resolve lateral velocity contrasts across fault for the PSC acreages. Contractor must have a full suite of proven prestack acoustic and elastic depth migration algorithms (Kirchhoff, Beam and RTM etc.) as well as proven elastic and acoustic FWI and Tomography with ability to constrain input rays based on model surfaces. Contractor must have the ability to incorporate the geological surfaces and other well/geophysical data into the velocity/anisotropic model.
- g. Hi-end post-migration processing and noise reduction as required with a suite of angle stacks and specified derivative volumes.

**3. MANDATORY REQUIREMENTS**

- a. To be eligible for this tender exercise, interested tenders are required to be prequalified and have LIVE status in the **3.10.02 (2D/3D/4D Seismic Data Processing Services)** Category in the NipeX Joint Qualification System (NJQS) database. **All successfully pre-qualified suppliers in this category will receive Invitation to Technical Tender (ITT).**
- b. To determine if you are prequalified and view the product/service category you are listed for: Open <http://vendors.nipex-ng.com/> and access NJQS with your log-in details, click on continue Joint Qualification Scheme tool, click check my supplier status and then click supplier product group.
- c. If you are not listed in this product/service category and you are registered with DPR, please contact NipeX office at No.8 Bayo Kuku Street, Ikoyi Lagos with your DPR certificate as evidence for verification necessary update.
- d. To initiate the JQS prequalified process, access [www.nipex-ng.com](http://www.nipex-ng.com) to download application form, make necessary payments and contact NipeX office for further action.
- e. To be eligible, all tenders must comply with the Nigerian Content requirements in the NipeX system.

**4. NIGERIAN CONTENT**

Company is committed to the development of the Nigerian Oil and Gas business in compliance with the Nigerian Oil and Gas Industry Content Development Act 2010 (NOGICD Act) enacted by the Federal Government of Nigeria in April 2010.

As from the commencement of this Act, the minimum Nigerian Content in any project, service or product specification to be executed in the Nigeria Oil and Gas industry shall be consistent with the level set in the schedule to the Act and any other targets as may be directed by the Nigeria Content Development and Monitoring Board (NCDMB).

Esso requires their Contractors to comply with the Act, its attached Schedule any applicable regulation developed by the NCDMB.

Nigerian Content (NC) in the Nigerian oil and gas industry is defined as:

"The quantum of composite value added to or created in the Nigerian economy by a systematic development of capacity and capabilities through the deliberate." utilization of Nigerian human, material resources and services in the Nigerian oil and gas industry.

"Nigerian company" is a company formed and registered in Nigeria in accordance with the provision of Companies and Allied Matters Act with not less than 51% equity shares by Nigerians.

Tenders shall consider Nigerian content as an important element of their overall project development and management philosophy for project execution.

**As part of their submissions, Tenderers shall:**

- a. Demonstrate that the entity is a Nigerian indigenous company, provide details of its Ownership Structure. Submit certified true copies of CAC form (C02 and C07) including memorandum and Article of Association with minimum of 51% Nigerian shareholding stipulated for a Nigerian Company, including evidence of being registered on the NCDMB NOGIC JQS.
- b. Description of in-country committed infrastructure (equipment, technical office and administrative space, and workshop in Nigeria to support this contract.
- c. Provide evidence of what percentage of your key management position is held by Nigerians and what percentage of the total work force are Nigerians. Also, show overall percentage of work to be performed in Nigeria and those by Nigerian resources relative to total work volume.
- d. State proposed total scope of work to be conducted by Nigerian personnel (whether contracted directly or under subcontract agreements) with names and addresses.
- e. Tenderer shall comply with the latest approved version of NCDMB HCD guideline by committing (via a letter of undertaking) 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).
- f. Tenderer shall provide evidence of Category 1, 2, 3 or 4 for Services & Support (SS) group NCEC demonstrating capacity and capability to execute the work scope.

Tenderers failure to comply with the NOGICD Act or demonstrate commitment to Nigeria Content development will result in Bidder's disqualification.

**5. CLOSING DATE**

Only Tenderers who are registered and have LIVE status in the **3.10.02 (2D/3D/4D Seismic Data Processing Services)** category in NJQS data base as at **16:00hrs on 09/16/2022** being the advert close date shall be invited to submit Technical bids.

**6. ADDITIONAL INFORMATION**

- a. Interested suppliers must be prequalified for this product/service category in NJQS
- b. Full tendering procedure will be provided only to contractors that have been successfully prequalified in NJQS.
- c. This advertisement shall neither be construed as an Invitation to Tender (ITT) nor a commitment on the part of Esso to award a contract to any supplier and/or associated companies, sub-contractors or agents.
- d. This advertisement shall not entitle prequalified companies to make any claim whatsoever, and/or seek any indemnity from Esso and/or its partners by virtue of such companies having been prequalified in NJQS.
- e. All costs incurred in registering and prequalifying for this and other product/service categories in NJQS shall be borne solely by suppliers.
- f. Suppliers that are prequalified for this product/service category in NJQS must ensure that their names and contact details (physical address, email address and telephone number) of their company and authorized/responsible personnel is up-to-date in their company profile in the NJQS database.
- g. Esso shall communicate only with the authorized/responsible personnel of prequalified companies and not through unauthorized individual or agents.

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