



CHEVRON NIGERIA LIMITED

(R.C. 6135)

Operator of the NNPC/Chevron Joint Venture



TENDER OPPORTUNITY

**PROVISION OF SEISMIC DATA PROCESSING & REPROCESSING (CALL -OUT) SERVICES (JV)
TO SUPPORT OFFSHORE AND ONSHORE DRILLING AND COMPLETION OPERATIONS
NipeX Tender No –CNL.00000179**

INTRODUCTION:

Nigerian National Petroleum Corporation (NNPC) / Chevron Nigeria Limited (CNL) joint venture invites interested and pre-qualified companies for provision of Services listed under 'Scope of Work/Service Requirements' which will be carried out in respect of NNPC/Chevron Nigeria Limited 2019 - 2021 Oil and Gas Wells Drilling, Completions and Workovers for Offshore and Onshore Operations in Nigeria. Availability to commence provision of Services is required for an anticipated Commencement Date: Third (3rd) Quarter 2019 with a Primary Term of two (2) Years with a possible Optional Term of one (1) Year.

SCOPE OF WORK:

The scope of work for this seismic data processing and re-processing tender call out will include but not limited to the following:

- 2D/3D/4D OBN/OBC/Streamer marine/land seismic data processing from field tapes through a prescribed Pre Stack Time Migration (PSTM) and Pre-Stack Depth Migration (PSDM) sequence with a range of PSDM algorithms (all with TTI, VTI, HTI capability),
- 4C PS wave seismic data processing
- Full Wave Inversion Processing (FWI)
- High Resolution geohazard processing

Contractor shall have the capability to provide highly qualified personnel, first class processing hard-ware and software system to perform the seismic processing or re-processing work scope detailed above over field areas in the following acreages:

- OML 95 – 1615 sq.km
- OML 90 – 1135 sq.km
- OML 91 – 600 sq.km
- OML 89 – 470 sq.km
- OML 88 – 543 sq.km
- OML 86 - 470 sq.km
- OML 49 – 1667sq.km

The Contractor shall also have the capability to perform the following:

- Provision of QC test products for review by Company or it's Client Representatives at all stages
- Production and delivery of Quality Control products and Status Reports
- Generation of Angle Stacks Volumes and requested AVO products
- Deliver requested products in SEG-Y format on 3592, LTO and DLT tape media and on Network Attached Storage device
- Submission of final processing report within 2 months of project completion

Minimum Software Capabilities to perform the following:

- 3D Surface Related Multiple Attenuation
- Vector Fidelity Corrections
- De-signature – Zero Phase Correction
- Water Column, refraction/residual/reflection Statics
- Hi-Resolution Radon De-multiple
- Ursin Amplitude Compensation
- Directional Signature Deconvolution
- Up/Down Wavefield Deconvolution
- Inverse Q Compensation
- 3D Nosie Suppression
- 5D regularization and interpolation
- Residual Diffracted Multiple Suppression
- Decomposition into Up-going and Down-going Wavefields
- Shot Record Migration
- Surface Consistent Amplitude Correction (S&R)
- TTI Tomographic velocity update
- Higher Order Velocity and ETA Analysis
- Curved-ray Anisotropic Pre-stack Kirchhoff Time Migration and TTI Anisotropic Pre-Stack Depth Migration
- Receiver Record TTI Pre-stack Depth Mirror Migration
- FWI and TTI RTM
- Azimuthal Anisotropy Analysis and Correction
- Continuous Residual Velocity Analysis
- Time Varying Trim Statics
- Q Filter (phase only)
- AVO Products
- Secure Internet based remote QC tools, allowing for display and downloading of large SEG-Y and PowerPoint files

Minimum Hardware Capabilities:

- 3592, 3590, LTO, and DLT tape drives
- A minimum of 500 Terabytes of on-line and available disk storage capacity
- A minimum of 8 Precision workstations with graphics processing capability
- Sufficient computing resources (minimum of 400 nodes, 1600 CPU, with speed 16GHz, 16GB RAM memory per node. Minimum total compute capacity 16Tflops)
- Visualization facility for 3D volume QC
- Video conferencing capability at contractor in-country processing center

MANDATORY TENDER REQUIREMENTS:

- To be eligible for this tender exercise, interested bidders are required to be pre-qualified in the **3.10.02 (2D, 3D, 4D Seismic Data Processing Services)** Category in NipeX Joint Qualification System (NJQS) database. All successful bidders who are **pre-qualified and "live"** in this category by the bid close date 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 tab to view your status and product codes.
- If you are not listed in the product service category you are registered with DPR to do business, please contact NipeX office at 8-10 Bayo Kuku Street, Ikoyi Lagos with your DPR certificate as evidence for verification and necessary update.
- To initiate and complete the NJQS prequalification process, access www.nipex-ng.com click on services tab followed by NJQS registration.
- To be eligible, all interested bidders must comply with the Nigerian Content requirements in the NipeX system.

NIGERIAN CONTENT REQUIREMENTS:

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

Pursuant to enactment of the NOGICD Act, the minimum Nigerian Content in any project, service or product specification to be executed in the Nigerian Oil and Gas Industry shall be consistent with the level set in the schedule of the Act and any other target as may be directed by the Nigerian Content Development and Monitoring Board (NCDMB).

Contractors shall comply with the provisions of the NOGICD Act and all applicable regulations. Bidders that do not meet the Nigerian Content criterion will not be allowed to participate in next Tender Stage

The following are the Nigerian Content requirements bidders are expected to comply with in their technical bid submission.

- Demonstrate that the entity is a Nigerian Registered Company, or a Nigerian Registered Company in genuine alliance or joint venture with foreign company with details on scope and responsibilities of parties for this work. Such companies must show evidence of joint venture binding agreement duly signed by the CEO of both companies including evidence or plans of physical operational presence and set-up in Nigeria
- Furnish details of company ownership and shareholding structure. Also submit clear photocopies of your CAC Forms CO2 and CO7
- Provide evidence of the percentage of 1) key management positions that are held by Nigerians and 2) total work force that are Nigerians. Also, show overall percentage of work to be performed by Nigerian resources relative to total work volume.
- Provide a Nigerian Content Plan with a detailed description of the role, work scope, man-hours and responsibilities of all Nigerian companies and personnel that will be involved in executing the work. Also provide details of Nigerian Content contact or manager.
- State proposed total scope of work to be performed by Nigerian personnel (whether contracted directly or under subcontract agreements) with names and addresses including evidences of well-equipped offices and workshop; attach past experience of such patronage.
- Specific to this project, provide detailed plan for staff training and development on engineering, project management and procurement (including all software to be used, number of personnel, name of organization providing such training and evidence of past training record) for Nigerian personnel including description of any specific programs in place for transfer of technology and skills to indigenous businesses and Nigerians over the next five (5) years.
- Provide evidence of domiciliation of project management and procurement centers in Nigeria with physical addresses (not P.O. Box).
- Location of in-country facilities, (Equipment, storage, workshops, repair & maintenance facilities and, testing facilities).
- Contractor must be willing and able to provide evidence of maximization of made in Nigeria goods and services.
- Provide details on any other Nigerian Content initiative your company is involved in.
- Provide evidence of MOU with OGTAN registered trainer to conduct classroom module of training and on the job attachment
- Provide human capacity building development plan including budget which must be minimum 10% of project man-hours or cost. Training will be targeted at developing capacity other than bidder's personnel. Trainees will be nominated from a database maintained by NCDMB and the services of OGTAN registered trainers utilized to cover classroom modules.
- Provide details of equipment ownership.



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N. Bidders (Vendors, Original Equipment, Manufacturers-OEMs, and EPC Contractors) are required to present Nigerian Content Equipment Certificate (NCEC) issued by Nigerian Content Development and Monitoring Board (or evidence of application for the certificate) in respect of any components, spares, equipment, systems and packages to be used in the proposed project under tender.

O. All Bidders for a project/contract/service with a completion period of 12 months or more are required to submit as part of the Nigerian Content requirement, a signed Memorandum of Agreement (MOA) between it and one of the research and development (R&D) Clusters established by the Nigerian Content Development & Monitoring Board (NCDMB). The MOA shall be relevant to the project and shall indicate how the Bidder intends to use the relevant R&D Clusters during project execution.

CLOSING DATE:

Only bidders who are **pre-qualified and "live"** with NJQS Product/Category **3.10.02 (2D, 3D, 4D Seismic Data Processing Services)** by 16:00 Hours, Friday May 10, 2019 being the advert close date shall be invited to submit technical bid.

Additional Information:

1. Suppliers eligible for this tender opportunity are expected to be prequalified in NJQS under this product/service category.

2. The Invitation to Tender (ITT) and any further progression of this tender shall be via NipeX.
3. All costs incurred in preparing and processing NJQS prequalification shall be solely to the contractor's accounts.
4. This advertisement shall neither be construed as any form of commitment on the part of Star Deep Water Petroleum Limited to award any contract to any company and or associated companies, sub-contractors or agents, nor shall it entitle prequalified companies to make any claims whatsoever, and/or seek any indemnity from Chevron Nigeria Limited and or any of its partners by virtue of such companies having been prequalified in NJQS.
5. The tendering process shall be the NNPC contracting process requiring pre-qualified companies to submit technical tenders first. Following a technical review, only technically and financially qualified contractors will be requested to submit commercial tenders.
6. Chevron Nigeria Limited will communicate only with authorized officers of the pre-qualifying companies and NOT through individuals or Agents

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

Management

Chevron Nigeria Limited, 2 Chevron Drive, Lekki Peninsula, P.M.B. 12825, Lagos.

ES/NCDMB/CNL - ADVERT/0304/1900/UPD/JV SEISMIC PROCESSING & REPROCESSING TENDER