

**Star Deep Water Petroleum Limited**

**A Chevron Company**

**Operator of the Agbami Unit (OML 127/128)**

**Tender Opportunity: Provision of Seismic Processing Services for Ocean Bottom (OBN) 4D Seismic Data (MONITOR 2) in Agbami Field**

**NipeX Tender No: 2200132**

**Introduction**

Star Deep Water Petroleum Limited (Star), a Chevron company and operator of the Agbami field on behalf of its co-venturers (FAMFA Oil Limited, Statoil Nigeria Limited, Petroleo Brasileiro Nigeria Limited and Nigerian National Petroleum Corporation (NNPC)), invites interested companies with relevant experience to apply for pre-qualification for the provision of seismic processing services for ocean bottom (OBN) 4D seismic data (monitor 2) in the Agbami field to support Star's Deepwater Oil and Gas Well Drilling and Completion Operations. The contract is proposed to commence in the 4th quarter of 2015 for a term of two (2) years plus a possible optional term of one (1) year duration.

**Scope of Work/Service Requirements**

**The scope of work for the multi-component OBN seismic data processing will include but will not be limited to:**

- Process 4C OBN 4D seismic data (Monitor 2) and reprocessing of Monitor 1 over approximately 229 sq. km of node area and 582sq. km of shot carpet area in water depths of about 1170-1830m in 4Q 2015 from navigation merged field tapes through a prescribed Pre-stack Depth Migration sequence with a range of PSDM algorithms (all with TTI capability and capable of being implemented in a mirror imaging manner).
- Provision of QC test products for review by Client Representatives at all stages.
- Generation of Angle stacks Volumes and requested AVO products.
- Capability to deliver requested products in SEG-Y format on 3592 tapes and on Network Attached Storage device.
- 4C P-S wave data processing.
- Submission of final processing report within 2 months of project completion.

**Minimum Software Capabilities:**

- 3D Surface Related Multiple Attenuation.
- Designature – Zero Phase Correction.
- Water Column Statics.
- Hi-Resolution Radon Demultiple.
- Ursin Amplitude Compensation.
- Inverse Q Compensation.
- 3D Noise Suppression.
- Residual Diffracted Multiple Suppression.
- Shot Record Migration.
- Surface Consistent Amplitude Correction (S&R).
- Tomographic Amplitude Correction.
- Higher Order Velocity and ETA Analysis.
- Curved-ray Anisotropic Pre-stack Kirchhoff Time Migration and Anisotropic Pre-stack Depth Migration.
- 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 and DLT 500 tape drives.
- A minimum of 150 Terabytes of on-line and available disk capacity.
- Delivery of products in SEG-Y format on Network Attached Storage devices.
- Capability to produce and deliver Quality Control products and Status Reports.

- Sufficient computing resources to be able to deliver a 4C/3D Curved-ray Anisotropic Pre-stack Kirchhoff Time Migration and Anisotropic Pre-stack Depth Migration for approximately 229 square kilometers of subsurface coverage, minimum of 9 seconds record length, 4 milliseconds sample rate, within 6 months of receipt of the full complement of the dataset
- Tomographic amplitude correction capability.
- Visualization facility for 3D volume Qc.
- Video conferencing capability at contractor in-country processing centre.

**Mandatory Tender Requirements:**

(A) 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 A, B, C & D in NipeX Joint Qualification System (NJQS) database. All successfully pre-qualified bidders in both categories by the bid close date will receive an invitation to Technical Tender (ITT).

(B) Please note that bidders and their proposed sub-contractor(s) shall be required to:

(i) Meet all JQS mandatory requirements to be listed as “prequalified” and “Live” for a category in the JQS database.

(ii) Meet all Nigerian Content requirements stated in this advert in their responses to the ITT. Failure to meet the Nigerian Content requirements is a “FATAL FLAW”.

(C) To determine if you are pre-qualified and view the product/service category you are listed for: Open [www.nipexng.com](http://www.nipexng.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.

(D) If you are not listed in these product/service categories, and you are registered with DPR to do business in both these categories, please contact NipeX office at 30, Oyinkan Abayomi Drive, Ikoyi Lagos with your DPR certificate as evidence for review and necessary update.

(E) To initiate and complete the JQS prequalification process, access [www.nipexng.com](http://www.nipexng.com) to download the application form, make necessary payments and contact NipeX office for further action.

### **Nigerian Content**

Star is committed to the development of the Nigerian Oil and Gas business in accordance 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).

Interested bidders 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 the next tender stage

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

(A) Demonstrate that the entity is a Nigerian registered company, or a Nigerian registered company in genuine alliance or joint venture with a foreign company, with the details of the scope of the alliance or joint venture and responsibilities of the parties for services covered by this tender opportunity provided. Such companies must show evidence of a binding joint venture agreement duly signed by the CEO of both companies including evidence or plans for physical operational presence and set-up in Nigeria.

(B) Furnish details of company ownership and shareholding structure. Also submit clear photocopies of your CAC Forms C02 and C07.

(C) 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.

(D) 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.

(E) State proposed total scope of work to be performed by Nigerian personnel (whether contracted directly or under subcontract agreements) with names and addresses including evidence of well-equipped offices and workshop; attach past experience of such patronage.

(F) Specific to this tender opportunity, provide a 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.

(G) Provide evidence of domiciliation of project management and procurement centers in Nigeria with physical addresses (not P.O. Box).

(L) Location of in-country facilities, (equipment, storage, workshops, repair and maintenance facilities and, testing facilities).

(I) Interested bidders must be willing and able to provide evidence of maximization of made in Nigeria goods and services.

(J) Provide details on any other Nigerian Content initiative your company is involved in.

(K) Provide evidence of any Memorandum of Understanding (MOU) with The Oil & Gas Trainers Association of Nigeria (OGTAN) registered trainer to conduct classroom module of training and on the job attachment

(L) Provide human capacity building development plan including budget which must be a minimum 15% of project man-hours or 3% of contract cost. Training must 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.

(M) Provide details of equipment ownership.

(N) Interested bidders are required to present Nigerian Content Equipment Certificate (NCEC) issued by NCDMB (or evidence of application for the certificate) in respect of any components, spares, equipments, systems and packages to be used in the proposed project under tender.

(O) All interested bidders 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 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.

#### **Close Date**

Only bidders who are registered with NJQS 3.10.02 (2D/3D/4D Seismic Data Processing Services) Categories A, B, C & D by **4:00pm., 18<sup>th</sup> June, 2015** being the advert close date shall be invited to submit a technical bid.

#### **Please note the following:**

- (1) Suppliers eligible for this tender opportunity are expected to be prequalified in NJQS under this product/service category.
- (2) The ITT and any further progression of this tender shall be via NipeX.
- (3) All costs incurred by the interested bidder in preparing and processing NJQS prequalification shall be solely for the interested bidders accounts.
- (4) Meet the requirement of Surveyors Registration Council of Nigeria (SURCON) for survey activities in Nigeria.
- (5) This advertisement shall neither be construed as any form of commitment on the part of Star 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 Star and or any of its co-venturers by virtue of such companies' having been prequalified in NJQS.

(6) 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 bidders will be requested to submit commercial tenders.

(7) Star will communicate only with authorized officers of the pre-qualifying companies and not through individuals or Agents.

Please visit NipeX portal at [www.nipexng.com](http://www.nipexng.com) for this advert and other information.

**Star Deep Water (a Chevron Corporation affiliate) is this operator of the Agbami Field, Other participants are Famfa Oil Limited, Nigerian National Petroleum Corporation (NNPC), Texaco Nigeria Outer Shelf Inc. (a Chevron Corporation affiliate), Statoil Nigeria Limited, and Petroleo Brasileiro Nigeria Limited  
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