

EXPRESSION OF INTEREST (EOI) FOR IMPLEMENTATION OF A PASSIVE SEISMIC MONITORING NETWORK FOR TILENGA PROJECT IN UGANDA

REFERENCE: 10007161

TotalEnergies EP Uganda BV (company) the Operator of Contract Area (CA) 1 and License Area (LA) 2, in conjunction with its Joint Venture partner(s), requires the services of an experienced and reputable contractor for the implementation of a PASSIVE SEISMIC MONITORING NETWORK in respect of the development of the Tilenga Project (CA-1 block and the Northern part of LA-2 blocks), Lake Albert Basin, Republic of Uganda.

General description:

Tilenga fields are traps located in the Lake Albert region, an active branch of the Great East African Rift. Given the important seismic activity of the area, the Company is seeking to deploy a Passive Seismic Network (PSN) (i) to constitute a blank-level baseline of natural seismicity prior to the start of hydrocarbon production in 2025, and (ii) to further monitor the seismicity throughout the production period estimated to be 25 years.

Main scope of SERVICES shall include:

- Design for deployment of approximately 10 stations in an area of ~1000 km² for permanent seismic monitoring of the Tilenga fields both to provide a baseline (2022-2025) and to further monitor the area during production (2025-2050).
- Design, supply, delivery, and installation of seismic instruments.
- Method and system for acquisition of passive seismic data and real time upload on a dedicated server.
- Location of potential sites for passive seismic stations to be installed.
- Field scouting to validate selected sites for the deployment of stations.
- Recommendations for instrumentation testing and network uptime maximization procedures.

- Recommendations for commissioning and maintenance of instruments.
- Processing of seismic data.
- Delivery of seismic data reports and/or access to a seismic events database.

The selected contractor will be able to demonstrate the following abilities

- Deployment of PSN in both environmentally sensitive remote areas and near populated zones.
- Seismic processing.
- Maintaining the equipment during the 25 years project lifetime.
- Setting up an early-warning system for events of magnitudes above a defined threshold.
- Providing easy access to seismic data to COMPANY.

In addition to the above-mentioned technical capacity, the minimum requirements to participate in the Prequalification Process are:

- Must have enough resources to cover the full scope of the project.
- At least 10 continuous years' experience in passive seismic acquisition and processing.
- Fully certified and experienced personnel in passive seismic acquisition and processing.
- Proven experience in managing similar PSN projects for oil and gas industry.
- Compliance to National and International laws and oil and gas international standard.
- Adequate financial capability to perform the SERVICES as required.
- Current registration to; or application to be registered to; the National Supplier Database for the year 2021.

Interested companies who meet the minimum requirements should submit a company profile (including description of relevant company experience) together with a request for a pre-qualification questionnaire by email to:

Tilenga-EOI-Seismic-Monitoring@totalenergies.com on or before **09th November 2021 17:00 Hours Kampala time (GMT+3)**.

The subject of the email should quote '**Prequalification Ref No 10007161 – Implementation of a Passive Seismic Monitoring Network for Tilenga Project**'. Pre-qualification questionnaire(s) with submission instructions will be issued by email after the aforementioned EOI closing date to only interested companies meeting the above minimum requirements.

Note: Only prequalified bidders will receive invitations to submit bids in furtherance of the Call for Tender process.