

**EXPRESSION OF INTEREST (EOI)**

**NO. EOI/GPHY/2024-6**

**Dated 03.01.2024**

**FOR**

**HIRING OF SERVICES FOR DIGITALIZATION OF SEISMIC DATA MANAGEMENT**

**PREAMBLE:**

OIL INDIA LIMITED (OIL), a premier National Oil Company, is engaged in the business of exploration, production and transportation of crude oil and natural gas for over five decades. It is a Maharatna Company under the Ministry of Petroleum and Natural Gas, Government of India, and the second largest National Oil Company in the country.

As part of its strategy to strengthen its position as a leading operator, OIL is continuously carrying out geophysical data acquisition including 2D/3D seismic, passive seismic and potential method, exploratory and development drilling in its operated acreages. OIL is currently carrying out domestic E&P activities in a total of 59 nos. of operated acreages. Geophysics Department at OIL recognizes the critical importance of efficiently managing seismic data, especially considering the extensive vintage of our datasets spanning over 40 years.

**2.0 PROJECT OVERVIEW:**

We are actively seeking proposals from experienced service providers to streamline the handling, storage, and digitalization of this invaluable seismic data or any other solution for further enhancement of Geophysical/Seismic Data Management as per the international industry standard.

The project encompasses the management of seismic data in various formats and volumes, including but not limited to:

- 2D & 3D Raw and Processed Seismic Data of approximately 13,000 LKM & 10,500 Sq. KM respectively which volumes to around 250 terabytes of data as on date.
- Other survey datasets of gravity, magnetic or any other geophysical datasets which volumes to around 10 terabytes of data as on date.

These datasets are currently available in physical tapes and are under migration to recently procured 500 TB digital storage.

The proposed approach involves:

- i. **Comprehensive Data Cataloguing:** Implementing robust systems for the meticulous organization, classification, and cataloguing of seismic data. This includes metadata structuring, data classification, and establishing efficient retrieval mechanisms.
- ii. **Archival and Retrieval of Data:** Developing a comprehensive archival strategy for long-term storage of seismic data while ensuring easy retrieval mechanisms. Implementing data lifecycle management strategies to maintain data integrity and accessibility over time.

- iii. **GIS Integration:** Seamlessly integrating the seismic data into Geographic Information Systems (GIS) for spatial analysis, visualization, and enhanced interpretative capabilities.
- iv. **Customized Solutions, Dashboard Display:** Tailoring solutions to the specific needs and workflows of the Geophysics Department, ensuring alignment with operational objectives. This includes the implementation of a comprehensive dashboard display at-a-glance insights into dataset status.
- v. **Database Management:** Establishing and optimizing databases for efficient storage, retrieval, and management of seismic data. Implementing scalable and secure database solutions to accommodate evolving data needs.
- vi. **Training and Support:** Providing comprehensive training sessions and ongoing support to ensure a smooth transition to the new digitalized systems.
- vii. **Data security and redundancy:** Establishing a robust disaster recovery (DR) site and implementing data replication protocols from primary storage to DR storage. In the event of primary storage failure, data retrieval from the DR site will be seamless. Regular backups from the primary site to DR will ensure data integrity and availability, safeguarding against potential data loss. The hardware and software solution provided must be Cloud Native. The entire solution must have the capability to move to any cloud infrastructure as per OIL's requirement in future.
- viii. **Annual Maintenance Contract (AMC):** Annual Maintenance Contract for a period of 5 years for the provided solution and may be extended to another 3 years. The AMC will cover comprehensive technical support, training, software updates, regular maintenance checks, and proactive troubleshooting measures to ensure the seamless functioning and optimization of the implemented systems throughout their lifecycle.
- ix. **Scope for enhancement and collaborative integrated solution for operational needs to be implemented/decided as per future requirements.**

### **3.0 GENERAL NOTES:**

- i. The service providers need to submit documents/brochures showcasing their software and/or hardware capabilities.
- ii. All documents/brochures submitted along with the EOI must be self-certified by the service providers and should be clear and legible.
- iii. The EOI is liable to be ignored in case of submission of any misleading/false representation by the service providers.
- iv. OIL reserves the right to ignore any or all EOIs, without assigning any reason thereof.
- v. The service providers who wish to present their solution capabilities may present on VC/physical mode **which will be communicated in due time.**

### **4.0 SUBMISSION OF EOI:**

Interested service providers are invited to submit their EOI and any related queries at our email ID: [hgp\\_office@oilindia.in](mailto:hgp_office@oilindia.in) by **31.01.2024**, followed by hard copies of the same through courier/post superscribing "EOI No. EOI/for **“HIRING OF SERVICES FOR DIGITALIZATION OF SEISMIC DATA MANAGEMENT”** at the following address:

**CGM-GEOPHYSICS (HoD)**  
**OIL INDIA LIMITED**  
**GEOPHYSICS DEPARTMENT**  
**P.O. DULIAJAN-786602**  
**DIST. DIBRUGARH, ASSAM, INDIA**

- i. The EOI(s) along with the relevant documents must be submitted in a comprehensive single file (.zip file).
- ii. OIL reserves the right to (a) accept or reject any/all EOI(s) submitted by parties and cancel the process at any time without any liability and assigning any reason thereof.
- iii. This notice should not be construed as a commitment from OIL to do any business with the parties expressing interest.

**\*\*End of EOI Document\*\***