

**EXPRESSION OF INTEREST (EOI) NO.  
EOI/GPHY/G/002/2022-23  
DATED 12.05.2023.  
FOR**

**PROCUREMENT OF ONE NUMBER OF FULL SUITE OF SOFTWARE ALONG WITH REQUISITE HARDWARE TO CARRY OUT PROCESSING, INTERPRETATION AND MODELLING OF GROUND/AIRBORNE/MARINE POTENTIAL FIELD DATA INCLUDING GRAVITY GRADIOMETRY & GRAVITY MAGNETIC DATA**

**1.0 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 Navaratna Company under 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. These include 25 nomination Petroleum Mining Leases (PML) (21 in Assam, 2 in Arunachal Pradesh and 2 in Rajasthan), 3 nomination Petroleum Exploration Licenses (PEL) in Arunachal Pradesh, 4 NELP blocks (2 in Assam, 1 in Mizoram and 1 in Andhra Pradesh), 29 OALP Blocks (12 in Assam & AP, 1 in Nagaland, 3 in Tripura, 5 in Rajasthan, 5 in Odisha, 2 in Andaman shallow offshore and 1 in Kerala Konkan shallow offshore) and 2 Discovered Small field (DSF) blocks (1 each in Tripura and in KG Shallow Offshore). The total operating acreages cover an area of 63,045 sq. km.

In connection with its ongoing exploration and subsequent development activities OIL has planned to procure one no. of full suite license of Software along with requisite Hardware to carry out Processing, Interpretation and modelling of Ground/Airborne/Marine potential field data including full tensor Gravity Gradiometry & Gravity Magnetic Data. The software must have the following basic indicative capability:

- a. Processing (QA/QC tools, application of requisite corrections/data reduction techniques, etc.), Interpretation and modelling of ground/airborne/marine potential field data including full tensor Gravity Gradiometry & Gravity Magnetic Data
- b. Handle tensor data including gridding, filtering, leveling, grid merging, visualization, and interpretations.
- c. Forward modelling & structural analysis
- d. Integration of multi-domain G & G Data (Geological sections & maps, well log curves, potential field data, Passive Seismic Tomography (PST) data, Seismic interpretation data etc.) with the interpreted volume/different output grids of AGG & GM data.
- e. Preparation of 2D/3D sub surface structural and geological models along with appropriate grid/cube Visualization tool.

- f. Joint Inversion includes seismic, PST data as well as Gravity Gradiometry & Gravity Magnetic Data.
- g. Deliver project databases, Grids, Maps, 2D/3D sections/volumes, and final products pertaining to interpretation outcomes in industry standard generic file formats (viz. Go CAD, ASCII, ESRI, Arc-shape, etc.).
- h. Ready to use requisite hardware with necessary configuration pre-loaded with proposed software having capability to support data volume handling, facilitate computation intensive processes and visualization tools while utilizing the software. The proposed hardware should be capable of handling sizable data volume (up to 100 GB) with operations like gridding, filtering, merging and editing etc.

Therefore, OIL requests established OEMs having Global experience in supply of Software(s) to provide the module wise technical specifications of their proposed solution along with specification of requisite Hardware to meet the above mentioned basic indicative capabilities.

OIL would also like OEMs to perform the following under scope of supply:

1. Installation/Commissioning of Software/Hardware post-delivery of materials at OIL's premises.
2. Technical/Software module application training with duration of fifteen (15) working days at OEMs place.
3. On-the-job technical support/work association with duration of sixty (60) working days within a year of installation & commissioning at OIL's premises using G & G data including AGG & GM data available with OIL. The proposed work association of 60 days shall be carried out in 3/4 parts of 15/20 working days and duration shall be mutually decided.
4. Maintenance Services (Warranty + Comprehensive AMC) of system (including software & hardware) for five (5) years after successful installation & commissioning. OEM shall provide regular upgrades during AMC. There shall be a provision of visit of experts for minimum 15 working days per year to provide training/ work association on upgrades of software. There shall be a provision for Migration of software to new Hardware, if required.

## **2.0 DOCUMENTS/INFORMATION:**

The OEMs shall furnish the following documents as part of their EOI:

- (a) **Technical Specification:** Module wise details of their proposed full suite of software solution including Technical Specification/capabilities to perform different Processing, Interpretation, Modelling jobs/type, format of input G & G data handling and list of deliverables with format along with specification of standalone Hardware.
- (b) **Budgetary Quotation:** Budgetary Quotes with item-wise break up as per format enclosed as **Annexure-I** duly signed with seal by authorised representative on their official letter head. The budgetary quotes shall be addressed to following address:



**BUDGETARY QUOTATION SUBMISSION FORMAT**

Budgetary Quotation with item wise break up in INR to be submitted as per format given below duly signed with seal by authorised representative of the OEMs on their official letter head.

<b>Sl. No.</b>	<b>Item Description</b>	<b>Purpose of the Module</b>	<b>Cost (In INR)</b>
1	Module 1		
	Module 2		
	Module 3		
	Module 4		
	Total Software Cost (A)	For stand-alone license For server-based license	
2	Hardware Cost (B)		
3	Installation and Commissioning at OIL's Site (C)		
4	Technical/Software module application training with duration of fifteen (15) working days at OEMs place (D)		
5	On-the-job technical support/work association with duration of sixty (60) working days within a year of installation & commissioning at OIL's premises using vintage G & G data available with OIL (E)		
6	Maintenance services (Warranty +Comprehensive AMC) of system (including software & hardware) for five (5) years after successful installation & commissioning (F)		
	Maintenance services rate of Software for 1 <sup>st</sup> year		
	Maintenance services rate of Software for 2 <sup>nd</sup> year		
	Maintenance services rate of Software for 3 <sup>rd</sup> year		
	Maintenance services rate of Software for 4 <sup>th</sup> year		
	Maintenance services rate of Software for 5 <sup>th</sup> year		
	Maintenance services rate of Hardware for 1 <sup>st</sup> year		
	Maintenance services rate of Hardware for 2 <sup>nd</sup> year		
	Maintenance services rate of Hardware for 3 <sup>rd</sup> year		
Maintenance services rate of Hardware for 4 <sup>th</sup> year			
Maintenance services rate of Hardware for 5 <sup>th</sup> year			
All Total Cost (A+B+C+D+E+F)			
GST as applicable			
Total Cost including GST			

Signature: \_\_\_\_\_

Name of the OEMs Authorised Person: \_\_\_\_\_

Designation: \_\_\_\_\_

Place:

Date:

Seal of the Bidder:

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