

OIL INDIA LIMITED
NOTICE INVITING "EXPRESSION OF INTEREST" (EOI)

Oil India Limited (OIL), a Govt. of India Enterprise, invites Expression of Interest from eligible and interested service providers for the following work.

Processing (PreSTM, PreSDM, AVO and Post-stack Inversion) and workstation based interpretation of 3D & 2D offshore seismic data of NELP-VIII Block CY-OSN-2009/2 using latest processing facilities in India and interpretation systems (Processing likely to start from March/April, 2012) by tendering process. The processing is required to be carried by using the facilities in India only.

The EOI with detailed credentials of the interested service provider along with documentary evidence must be sent to Sr. Adviser (C&P) at Plot No. 19, Sector-16A, Noida-201301 (U.P.) to reach within 20 days from the date of publication.

For more details, please see OIL's web site: www.oil-india.com

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Sub: EOI for short listing of Parties for Processing & Interpretation of 3D & 2D offshore seismic data for evaluation and identification of prospects for exploration drilling

Senior Advisor (Contracts & Purchase), Oil India Ltd, Plot No. 19, Sector-16A, Noida-201301 (U.P.), India invites Expression of Interest as per the details given below:

Oil India Limited (OIL) intends to carry out processing (PreSTM, PreSDM, AVO and post-stack Inversion) and workstation based interpretation of 3D (nominal fold: 60) & 2D (nominal fold: 160) offshore seismic data of NELP-VIII Block CY-OSN-2009/2 using latest processing with facilities in India and interpretation systems (Processing likely to start from March/April, 2012) through tendering process.

The quantum of seismic data likely to be available **for processing by using the facilities in India only** is 3D data of 1621 Sq. Km (Equivalent to full fold 64840 lkm) and 2D data of 511 lkm (full fold) for PreSTM processing and around 30% of such data for specialized processing viz., PreSDM, post stack Inversion, AVO etc as optional work. The interpretation of all processed seismic data is also to be taken up for evaluation and identification of prospects to generate drillable exploratory locations.

Broad technical requirements for short listing the service providers for issue of tender document for the said jobs are as follows:

1. The service provider should have an established state-of-the-art processing center and have undertaken the said type of processing jobs in India, in last two years. **The processing is required to be done in India as a statutory requirement.**

The service provider having facilities in India or their principal must have experience in carrying out pre-stack time migration (PreSTM) processing of minimum 2000 sq. km. of offshore 3D Seismic data in last 05 years. Also, the bidder should have experience in carrying out PreSDM, AVO and Inversion processing of at least 500 sq. km. of 3D seismic data in last 05 years.

The key personnel for processing viz. Project Manager and Processing Geophysicist(s) should have experience of 3D marine seismic data processing of minimum 10 years and 7 years respectively including PreSTM, PreSDM, AVO and seismic inversion. QC Processing Geophysicist also required to be part of the team with 7 years experience in QC related processing jobs of PreSTM, PreSDM, AVO and inversion techniques.

2. Similarly, the service provider or their principal must have interpretation work experience of 2000 sq. km 3D seismic data for evaluation and identification of prospects through state-of-the-art interactive interpretation workstations in last five years. The service provider is also required to utilize the available PreSDM, AVO and inversion data for evaluation and identification of prospects in the block. The service provider should have completed at least 3 projects involving 3D seismic data for interpretation in last 5 years.

The key personnel for interpretation viz. Group Leader should have minimum interpretation work experience of 3D seismic data of 15 years and interpretation Geologist and geophysicist to be a part of the team with 7 years work experience on interactive work stations. The other persons required for assisting in the interpretation job like petro physicists/ log analyst, techno-economic analyst are to be deployed by the service provider as required.

The seismic interpretation work broadly includes the following:

- Well-to-seismic tie
 - Identification and picking of important/key horizons/reflectors
 - Mapping of time and depth structure maps of seismic horizons.
 - Seismic sequence Analysis of prospective sequences and areas of porosity development etc.
 - Trap integrity analysis/fault seal analysis
 - Seismic Attribute analysis/DHI analysis
 - Identification of prospects for hydrocarbon habitat in different geological / stratigraphic sequences in the block.
 - Evaluation of prospectivity of the identified prospects/leads from the point of view of generation, migration, play fairway analysis and entrapment and their ranking.
 - Identification and prioritization of prospects (both stratigraphic and structural) for exploration drilling. Generation of locations for exploratory drilling in the respective Area / Block with inter-se priority.
 - Estimation of hydrocarbon reserves for all identified Prospects/leads
 - Risk-weighted economic analysis for all identified Prospects/Leads in the respective Area/Block, in terms of both NPV and IRR, using state-of-the-art technology.
 - Preparation of detailed interpretation report including methodology, structural review, stratigraphic analysis, prospect evaluation and ranking & techno-economic risk analysis etc.
3. The service provider must furnish the following information of **their existing data processing centers in India** so that OIL can verify their claim of meeting short listing criteria for issue of tender document:
 - a) Details of processing system Hardware like Type of processor, Number of CPUs/nodes, number of work stations, RAM size, Graphics, hard disk capacity / storage capacity etc.
 - b) Details of processing software licenses installed.
 - c) Details of bidder's or its parent company experience so as to meet short listing criteria.
 - d) Details of experience of key personnel so as to meet pre-qualification.

- e) Details of work experience and past performance of the firm on processing jobs done of similar nature in the past and details of current work in hand and other contractual commitments, indicating areas and clients are to be submitted, in support of the experience criteria laid down above.

4.0 The service provider must furnish the following information of their **interpretation facilities** so that OIL can verify their claim of meeting short listing criteria for issue of tender document:

- a) Details of interpretation workstation Hardware like Type of processor, Number of CPUs/nodes, RAM size, Graphics, hard disk capacity / storage capacity etc.
- b) Details of interpretation software licenses installed.
- c) Details of bidder's or its parent company experience so as to meet short listing criteria.
- d) Details of experience of key personnel so as to meet pre-qualification.
- e) Details of work experience and past performance of the firm on interpretation jobs done of similar nature in the past and details of current work in hand and other contractual commitments, indicating areas and clients are to be submitted, in support of the experience criteria laid down above.

For any Technical clarifications the contact person is Shri P.K. Sharma, SA(GSc.) Oil India Limited, Plot 19, Sector 16A, Noida 201 301. Telephone no. 0120-2488415 & 0120-2488333-47.

OIL INDIA LTD reserves the right to accept or reject response of a firm to this expression of interest for **short listing of parties** and issue of the **tender document**.

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