OIL INDIA LIMITED
(A Govt. of India Enterprise)
NEF PROJECT
P.O. Duliajan-786 602(Assam)

Sub: Expression of Interest (EOI)
(EOI NO.: OIL/NEF/GLOBAL/EOI/014/2012)

CORING SERVICES

OIL INDIA LTD (OIL), a premier public sector undertaking, Govt. of India, engaged in exploration, production & transportation of hydrocarbons, invites Expression of Interest (EOI) from reputed and established E & P service providers meeting the prequalification criteria as mentioned below for empanelment/short-listing of Vendors/Contractors to issue tender documents for hiring of Coring Services for its North East Frontier (NEF) Project, Duliajan.

North East Frontier (NEF) Project of Oil India Limited is currently engaged in exploration activities in the State of Mizoram, India and plans to commence exploratory drilling in its NELP-VI Block : MZ-ONN-2004/1 by end’ 2012. The block covers an area of 3213 km² in the central part of the state, starts from about 50 km North of Aizawl and spreads upto 6 km. East of Hnahthial Town. The Block covers parts of Aizawl, Serchhip, Lunglei & Mamit Districts of Mizoram. It is planned to take oriented conventional cores in 12 ¼”, 8 ½” and 6” holes during drilling of onshore exploratory wells in the block by hiring complete coring services (i.e core cutting, orientation & stabilization) including coring experts, equipment & consumables from internationally reputed coring Service Provider on call out basis (as and when required in the wells) initially for three (3) wells as per details given in the broad scope of work below. However, coring at 6” hole is provisional and will be decided nearer the time based on requirements.

1.0 PROJECT INFORMATION :

As per committed MWP to the Govt. of India, Oil India Ltd (OIL) being the Operator of the above mentioned NELP block, has to drill 5(five) exploratory wells within the stipulated time frame.

Mizoram has the most variegated hilly terrain in the north-eastern part of India with 21 hill ranges of different altitudes (maximum altitude of around 1800m and in general 900 m to 1200 m) with succession of long valleys running mostly from North to South covering the entire state. The hills are very steep and rugged with intervening deep gorges. Two major roads namely NH-54 and State Highway funded by World Bank run almost parallel to each other in North–Southern direction through the centre of the state as well as OIL’s NELP block. Both the roads emanate from Aizawl and converge at Lunglei, the second largest town in Mizoram after Aizawl. These two highways will serve as the major feeders for any drilling locations within the NELP block. The roads are in hilly terrain full of sharp curves with steep gradient. The other connecting roads are narrow having sharp horizontal curves with steep gradient in many places.
Like all other states in North-East India, Mizoram also experiences heavy rain during Monsoon which sets early i.e. from May onward. The average annual rainfall is 250 cm. Pre-Monsoon showers are also frequent. During the period of monsoon there is frequent heavy rains resulting land-slides which temporarily disrupt the road communication system. The summer is hot & humid and maximum temperature ranges from 30 to 34 degree centigrade during April to June. The winter is from November to January when the temperature drops down to 12 to 25 degree centigrade.

2.0 GEOLOGY OF THE AREA:

2.1 Assam-Arakan region, Mizoram, Manipur and Tripura have drawn the attention of exploration geologists ever since the discovery of Digboi and Makum oil fields in Upper Assam around 1890. The Badarpur oil field in Cachar district of Assam, presently abandoned, was discovered in 1901. This discovery followed a spate of other discoveries in Assam since Sixties of the last Century. Gas occurrence in Tripura is very relevant to the exploration of the region. Commercial gas in this state was discovered during the late seventies of previous century within the Surma sequence of Miocene age. Several other gas fields have also been found since then.

2.2 Cachar-Tripura-Mizoram fold belt constitutes a distinct part of Assam-Arakan tectonic system. Myanmar’s Shan Plateau and the Ophiolite complex extend to the east of it. The Bangladesh flood plains are to the west. The Naqa Schuppen belt of Assam forms the northern extreme and Chittagong hill track (Bangladesh) lies to the south of it.

2.3 The area of operation is a part of Tripura–Cachar–Mizoram fold belt of Assam-Arakan Basin. The Mizoram fold belt is composed of tight linear folds with their axes almost in north-south direction. The intensity of folding increases from west to east where the rocks of Indian plate subducted below the Burmese plate. The anticlines are long, narrow and tight, whereas the synclines are broad and gentle. As per the geological section of the area of operation, the area has Tipam formation exposed in the central part and Bokabil formation is exposed in the eastern and western part. The Bhuban formation is divided in three formations as Lower, Middle and Upper Bhuban formations. Lower Bhuban formation is mainly alternations of sandstones and shale. The Middle Bhuban consists of mainly shale with subordinate sandstones. The Upper Bhuban consists of alternations of sandstones and shales. Multiple phases of folding, high degree of shearing, bed overturning, thrusting and which were recorded from the field investigation. From the overall evidences, high angle of subsurface formation dips (Max. Approx. $51^0-61^0$) are anticipated in the area.

3.0 LOCATION OF THE AREA:

The block: MZ-ONN-2004/1 is situated in the Mizoram state and covers an area of 3213 sq km. Aizawl is the Capital town of Mizoram and is connected to the other places by motorable roads and highways. The nearest railhead is at Bhairab close to the border within Cachar district of Assam. Aizawl is linked by Air to the rest of India, the nearest international airport being located at Kolkata in West Bengal. The proposed area lies in between the following broad coordinates:
### Co-ordinates of Block MZ-ONN-2004/1

<table>
<thead>
<tr>
<th>Points</th>
<th>Latitude (N)</th>
<th>Longitude (E)</th>
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<tbody>
<tr>
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<td>D</td>
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#### 4.0 BROAD SCOPE OF WORK:

- **a)** Contractor shall provide one experienced Coring Specialist and one Foam injection Technician as and when required on **call-out** basis for carrying out the coring operations at the respective well site.

- **b)** The Contractor shall provide complete set of coring equipment including but not limited to Core Barrel & orientation Assembly, handling tools, circulating sub on top of core barrel, core heads and coring services with all required accessories for taking oriented conventional cores in 12¼", 8½" & 6" hole sections of the wells. (Equipment should be suitable for operation in down hole conditions as specified in para 5.0 below). However, coring at 6" hole is provisional and will be decided nearer the time based on requirements.

- **c)** Contractor shall also provide suitable PDC / Diamond core bits with bit breaker as per requirement and formation characteristics.

- **d)** Contractor shall provide all necessary equipment, personnel & services for cutting, orientation, extraction & stabilization (if required) of core as desired by OIL.

- **e)** Contractor shall maintain all equipment in good operating condition.

- **f)** Contractor shall record core gamma log at wellsite.

### At Well Site:

- **a)** Coring equipment should be complete in all respect & in ready to use condition as & when required.

- **b)** Core bits should be so selected that it can take the core of desired length (maximum 9 Mtrs.) in a single run (in medium & medium-hard formations) in different hole sections.

- **c)** All handling equipment and materials required for cutting, orientation, extracting, wrapping and waxing & preserving the core samples should be readily available at respective well site.
5.0 SPECIFICATIONS:

a) Specifications of the Core Barrels to be provided are as follows:

- One set of 8" x 4-3/4" x 30 ft long Core barrel for 12¼" hole
- One set of 6¾" x 4" x 30 ft long Core barrel for 8½" hole
- One set of 4¾" x 2-5/8" x 30 ft long Core barrel for 6" hole

The core barrels should be complete with metal inner barrel liner system, core catcher, circulating sub on top, handling tools, stabilizers, safety joint and all required accessories.

b) Equipment: Core Bits (for taking cores in 12-1/4", 8-1/2" & 6" holes), Aluminum Standard Inner Barrel, End Caps, Clamps and Core Boxes, core handling tools, required x-over subs, etc. Vendors/Contractors to specify all such equipment / items required for carrying out the oriented coring services.

c) The Vendors/Contractors should indicate any other consumables or parts required, but not listed above.

d) Tools/ equipment deployed shall be of the latest versions/ technologies, so that, the project can be completed in the shortest possible time and execution of the jobs shall be of state of the art technology.

e) Necessary Fishing equipment for the above core barrels – Vendors/Contractors should indicate with details.

Note:

1. For the Exploratory Wells to be drilled in Mizoram area, the core has to be cut in Oligocene-Miocene section (shale/sandstone) tentatively within depth range of 1500 – 5000m or as per advice of Company. The suggested equipment and tools should be suitable for anticipated temperature and pressure. The anticipated pressure profile for Mizoram drilling is nearly hydrostatic. However, at depth, more than 2500m to 3000m downwards, high pressure may be expected. Maximum pressure at a depth at around 4500m to 5500m is expected to be in the range of around 6000-9500 psi.

   Anticipated Temperature profile: The maximum bottom hole temperature is expected to be in the range of 80⁰-120⁰ C upto a depth of 5000m.

2. The Contractor shall be solely responsible for the operation of their equipment including but not limited to the rigging up, testing, running and rigging down of equipment on Company’s hired 2000 HP Drilling Rig.

3. Coring equipment & tools shall be available in operational condition at all times during the period of the Contract.

4. The Vendors/Contractors must provide detailed specifications of equipment / sensors along with technical literature / drawings, etc. indicating the features available in their system. The Vendors/Contractors should also indicate limitations of their tools/ sensors such as temperature, pressure and discharge.
limitations with ability to pump LCM materials in mud loss conditions through the tools.

5. The wells are planned to be drilled either with Water based or polymer based Mud system.

6. The Contractor has to make all arrangements and take necessary precautions for maximizing recovery of cores. The well bores are expected to be near vertical and deviated or may be side tracked due to any down hole problems.

7. The Contractor will provide all the equipment, accessories and services as may be required for cutting, orientation, extraction & stabilizations of the cores at site on call out basis within thirty (30) days of receipt of written notice from the Company.

8. The Contractor will carry out the mobilization and demobilization of their equipment and personal to and from the designated locations in Mizoram.

6.0 PERSONNEL:

a) Contractor must provide following Personnel as & when required by Company on call-out basis for carrying out the coring operations at the designated wells in Mizoram.

- One (1) Coring Specialist
- One (1) Foam injection (Preservation and Core Processing) Technician

b) **Coring Specialist** shall have minimum experience of 5 (five) years for carrying out coring operations successfully. The Coring Specialist shall be responsible for (but not limited to) the following activities:

- Prepare Coring plan and program.
- Establish co-ordination with Rig-Manager of the rig and Core Analysis group if deployed in the field.
- Run, maintain and manage the Coring tools.
- Cut cores, stabilize, preserve, label, pack properly for transportation.
- Submit Coring report to the Company Representative at the Drilling Rig.
- Maintain adequate stock and inventory of tools and spares at site to perform the Coring program;
- Ensure availability of adequate spares for all the equipment and tools at site to carry out any repairs without downtime.

c) **Foam/Epoxy injection Technician** (Preservation and Core Processing Technician) will be required only when specialized preservation of cores is requested by Company (e.g. foam injection, epoxy resination, etc.). The Foam Injection Technician shall have minimum experience of five (5) years for carrying out core stabilization & preservation by Foam/ Epoxy Injection Technique.
7.0 REPORTING:

A Report on completion of each coring operation and thereafter, a comprehensive well-wise report of all coring operations undertaken in a particular well consisting of the following must be submitted to Company.

• An evaluation of the Core Bit, BHA and their performance;
• An analysis and recommend optimum parameters for future wells;
• A detailed list of spares and tools used and consumed in each hole section;
• A comparison of planned V/s actual tools used in each hole section;
• A detailed study on the coring problems encountered and mitigation strategies adopted;
• The Contractor will make recommendations for future coring design based on the lessons learned and its analysis.

8.0 TENTATIVE CORING PROGRAMME:

For the 1st well

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<tr>
<th>SI No.</th>
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<th>Qty.</th>
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<tr>
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<td>In 12¼” Hole: 9 m core in single run</td>
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<tr>
<td>2</td>
<td>In 8½” Hole: 9 m core in single run</td>
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For the 2nd well

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<td>In 12¼” Hole: 9 m core in single run</td>
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<tr>
<td>2</td>
<td>In 8½” Hole: 9 m core in single run</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>In 6” Hole: 9 m core in single run*</td>
<td>3</td>
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For the 3rd well

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<td>1</td>
<td>In 12¼” Hole: 9 m core in single run</td>
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<tr>
<td>2</td>
<td>In 8½” Hole: 9 m core in single run</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>In 6” Hole: 9 m core in single run*</td>
<td>3</td>
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* Required only if 6” hole is drilled, which is a contingency plan only

9.0 Provision for Well site Core Handling Services:

a) These services shall include but are not limited to:

i) Recording of Core Gamma
ii) Oriented coring services by using Electronic Magnetic Surveyor (EMS) Tool
iii) Extraction & cutting of core samples

b) Optional Services (if desired by Company):
i) Sample preservation  
ii) Core stabilization  
iii) Provision for packing materials for core prior to shipment.

9.1 Resources to be provided by Contractor for the above services:

i) Core handling Personnel  
ii) Portable Spectral Core Gamma  
iii) Wax bath, wax and associated materials/equipment.  
iv) Raw materials for stabilizing core and associated equipment.  
v) Core boxes and associated materials.

10.0 **Provision for Back-Up Tools & Services:** Contractor to maintain adequate back-up provisions to ensure smooth operations throughout.

11.0 **Description of Services:**

11.1 **Well site Spectral core gamma:** Contractor shall perform Spectral Core Gamma measurements for the client using suitable portable, pre-calibrated equipment. Hard and soft copies of the data shall be presented to the well site Geologist (ASCII format) at the rig site in a timely manner.

11.2 **Oriented coring services:** Through Scribe Mechanism / Electronic Magnetic Surveyor (EMS) Tool.

11.3 **Sample Preservation:** The Contractor may be required to take samples from the core for preservation so that any special analysis can be carried out by Company at its option.

11.4 **Core Stabilization:** The recovered cores are to be cut into 3 ft. lengths or as advised by Company and to be stabilized by the Contractor using suitable stabilizing materials & technique. Vendors/Contractors shall describe the process of stabilization in his submission, detailing all options available to Company. Such recommendations shall be based on rock type, consolidation of the core and availability of materials in India.

11.5 **Provision for Packing materials for the Cores prior to despatch from well site:** Upon cutting and stabilization as above, the cores shall be allowed time to set in. Thereafter, each piece of core shall be laid into pre-labeled core boxes and to be preserved through sponge core, cape & tape method prior to dispatch/shipment from site. Labeling of the boxes shall be made by permanent ink indicating the following:

- CLIENT's Name
- Well Name
- Core Number
- Depth Range of the Core
- Top and Bottom Depths of the Core inside
- Box number and total number of boxes
- Top and Bottom of the core marked on each end of the box
The Contractor shall perform above activities under guidance/supervision of Company’s well site Geologists.

12.0 **INSPECTION:** The Tools / Equipment / Consumables must be serviced and inspected to DS1 standard and such inspection reports must be furnished to the Company prior to mobilization/putting into use at site. For brand new equipment, such inspection will not be applicable. However, OEM certification shall be provided to the Company in lieu of inspection reports. Vendors/Contractors shall confirm compliance to the same in their EOI.

13.0 **SAFETY COMPLIANCE :**

The Contractor shall have to comply with the applicable standards and prevailing provisions of Mines Act, 1952, OISD (Oil Industry Safety Directorate) guidelines and MoE&F (Ministry of Environment and Forest) and Central/State Pollution Control Board’s directives as in vogue in India.

14.0 **PRE-QUALIFYING CRITERIA FOR ENLISTMENT/SHORT-LISTING:**

14.1 The Vendors/Contractors must fulfil the following minimum pre-qualifying criteria to qualify for empanelment/short-listing for issue of tender document for coring services.

   (i) The bidder must have minimum five (5) years experience of providing coring services during the last seven (7) years as on the bid closing date.

   (ii) Tools/equipment for deployment shall be of the latest versions/technologies and the bidder must have latest ISO/DNV certificate in terms of quality of execution of the intended jobs.

   (iii) The bidder must confirm to deploy the required number of qualified, experienced and competent personnel as per requirements defined herein.

   (iv) The Coring Specialist should have minimum five (5) years experience of performing coring services independently in oil/gas wells as on the bid closing date and should have successfully carried out core cutting jobs in the depth ranges of 3000-4000m in at least one well.

   (v) Bidder’s average annual financial turnover during the last three (3) years as on the bid closing date shall be Minimum ` 2.08 Crore (or US$ 0.40 Million).

   (vi) The average net profit of the bidder as per the past three (3) years audited accounts needs to be positive.

14.2 In case the Vendor/Contractor is a Consortium of Companies, the Leader of the Consortium should satisfy the minimum experience requirements as per para 14.1 (i) to (iv) above and any one of the Consortium members individually shall have to meet the financial turnover criteria mentioned in para 14.1 (v). However, all the Consortium members shall individually meet the criteria under para 14.1 (vi). Only the leader of the Consortium shall be permitted to submit the Bid on behalf of the consortium.

14.3 In case the Vendor is an Indian Company/Indian joint venture Company, either the Indian Company/Indian joint venture Company or its technical collaborator/
joint venture partner should meet the criteria laid down in para 14.1 (i) through (iv) above. However, the Indian company/Indian joint venture company must individually meet the financial turnover criteria set out in clause No. 14.1(v) above. All the partners of the joint venture/collaboration must meet the criteria mentioned in para 14.1(vi).

14.4 Any party who is extending technical support by way of entering into technical collaboration with another party, shall not be allowed to submit an independent bid and such bids will be rejected straightway. Further, all bids from parties with technical support from the same principal will be rejected.

15.0 DOCUMENTS / INFORMATION:

Vendors/Contractors must furnish documentary evidences, along with their EOI, in the same order as set out herein below from (a) to (e) in support of fulfilling the aforesaid pre-qualifying criteria:

(a) Detailed specifications of equipment / sensors along with catalogue/literature indicating all the features available in their system. The Vendor/Contractor should also indicate limitations of their tools/sensors such as temperature, pressure and discharge limitations with ability to pump LCM materials in mud loss conditions through the tool.

(b) Experience of Vendor/Contractor – Statement to be furnished by the Vendor/Contractor in a tabular form as per enclosed Annexure-II along with copies of contracts/work orders/ payment certificates/ completion certificates issued by various clients for similar coring jobs executed during last five years.

(c) Financial turnover of Vendor/Contractor – Information to be furnished as per Annexure-III together with copies of audited balance sheets / profit and loss accounts etc. for the last three financial years.

(d) A letter with categorical confirmation that the Vendor/Contractor shall deploy the requisite key personnel for the coring operations in the event of award of contract. Detailed Bio-data of their proposed personnel should be furnished as per enclosed Annexure-I.

(e) Details of similar works currently in hand and other contractual commitments of the vendor/contractor are to be submitted in a tabular form as per Annexure-IV along with copies of contracts/work order thereof.

(f) MOU/Agreement concluded with consortium partners or collaborators/joint venture partners or parent company, as the case may be.

Note: 1. Bid without the above listed documents or information shall be rejected.

2. All aforesaid documents submitted along with the EOI must be self certified by the Vendor/Contractor’s authorized person and duly notarised. OIL also reserves the right to verify the original documents.

16.0 SUBMISSION OF EOI:

The EOI together with the information/documents as mentioned above should be submitted in a closed envelop superscribing “EOI for Coring Services for NELP block in Mizoram” should reach the following address on or before 18th September, 2012 (15:00 hrs – IST).
However, in case the above date happens to be a Holiday/Bundh in Duliajan, EOI will be received up to the next full working day till 15:00 hrs.(IST). EOI may be sent by post/courier, delivered personally or dropped in the tender box placed at the office of NEF Project, Oil India Ltd, Duliajan-786602, Assam. However, for delay in receipt or non-receipt of the same, Oil India Ltd will not assume any responsibility, whatsoever.

16.1 **IMPRTANT NOTE:** Vendors/Contractors are expected to submit their EOI covering all the services as envisaged herein. However, Company reserves its right to issue tender document for Core Cutting & Recovery only, excluding core handling, processing and preservation. Therefore, Vendors/Contractors who are capable and interested for these Core Cutting and Core recovery services only may also submit their EOI clearly confirming the same. However, the pre-qualifying criteria will remain same as above for such partial response also, except for the requirement of Foam Injection Technician.

17.0 Oil India Limited reserves the right to (a) either accept or reject any / all EOI(s) (b) cancel the process, without assigning any reason whatsoever.

***************
Annexure - I

BIO-DATA OF KEY PERSONNEL

Nationality:
Date of Birth:
Designation:
Name:

Educational Qualification:

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<th>Sl. No.</th>
<th>Course completed</th>
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<th>Year of Passing</th>
<th>Division/ Rank</th>
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N.B: Please add more rows if necessary.

Working Experience of the personnel:

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<thead>
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<th>Sl. No.</th>
<th>Name of Company worked for</th>
<th>Designation/ Post held</th>
<th>Duration /Period</th>
<th>Job Profile</th>
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<td>Depth range of Coring</td>
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N.B: If required, more rows may be added. Also specify other experience of the personnel relating to OIL/ other organization/companies, if any.
## Annexure - II

**Experience Statement of Vendor**

**Coring Services**

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Contract No</th>
<th>Name of client</th>
<th>Place of operation</th>
<th>Normal or Thrust-fold belt hilly region</th>
<th>Depths of wells</th>
<th>Cored sections range &amp; size</th>
<th>Commencement of contract</th>
<th>Completion of contract</th>
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## Annexure - III

**Financial turnover of vendor – Audited balance sheets / profit and loss accounts etc.**

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<thead>
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<th>Financial Year</th>
<th>Annual Turnover</th>
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## Annexure - IV

**Details of current work in hand and other contractual commitments of the vendor**

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Contract No</th>
<th>Name of client</th>
<th>Place of operation</th>
<th>Normal or Thrust belt hilly region</th>
<th>Cored sections range &amp; size</th>
<th>Depths of wells</th>
<th>Period of contract (from–to)</th>
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N.B: Please add more rows if required.

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